



## Department of Energy

Washington, DC 20585

OCT 24 2011

### MEMORANDUM FOR PROGRAM SECRETARIAL ELEMENTS

FROM: PAUL BOSCO   
DIRECTOR, OFFICE OF ENGINEERING AND  
CONSTRUCTION MANAGEMENT

SUBJECT: Three Year Rolling Timeline Update

The Department continues to make significant progress improving real property asset management. The purpose of the attached Three Year Rolling Timeline (TYRT) is to continue implementation of the Department's Asset Management Plan. The TYRT is designed as a "living-document" providing specific real property management activities and outcomes as well as goals and targets. It satisfies requirements of Executive Order (EO) 13327 Federal Real Property Asset Management.

Implementation of this plan will ensure DOE continues to be a leader among the federal agencies in providing safe, reliable, and sustainable facilities that foster innovation and productivity to accomplish our important mission.

My point of contact for the TYRT is Mr. Phil Dalby, who can be reached at 202-586-4548.

Sunset Date: This memorandum will expire when replaced by the FY 2012 memorandum anticipated by November 1, 2012.

cc:

Administrator, Southeastern Power Administration  
Administrator, Southwestern Power Administration  
Administrator, Western Area Power Administration  
Administrator, Bonneville Power Administration  
CF-20  
FIMS Administrators  
Sustainability Performance Officer



## **Department of Energy**

### **Three Year Rolling Timeline; Implementing the Goals and Objectives of Asset Management Plan**



**Prepared by:  
Office of Engineering and Construction Management**

**Fiscal Year 2012 Update**

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## ***SECTION 1 – Three Year Rolling Timeline Overview***

### **1.1 INTRODUCTION**

The Three Year Rolling Timeline (TYRT) defines actions the Department will take over the next three years to implement the Department's Asset Management Plan (AMP). It is updated yearly, adjusting targets based on yearly performance and adding the next year's actions. The Department of Energy's TYRT is designed as a 'living-document' providing the strategies for implementing the Department's Real Property Asset Management Plan developed originally by Executive Order (EO) 13327 Federal Real Property Asset Management. It now includes High Performance Sustainable Building targets in EO 13423 Strengthening Federal Environmental, Energy, and Transportation Management and EO 13514, Federal Leadership in Environmental, Energy, and Economic Performance. The TYRT establishes specific real property management improvement activities and outcomes as well as goals and targets aligned with the four key performance metrics defined by the Federal Real Property Council.

### **1.2 SUMMARY OF ACCOMPLISHMENTS**

The Department of Energy has made significant progress in improvement of real property asset management. In FY 2003, the Department published its Real Property Asset Management Order (RPAM) which directed a holistic, life-cycle approach to real property management. To date, over 300 DOE facility professionals have received formal training in RPAM, effectively internalizing its cradle-to-grave approach to real property management.

A key element of RPAM is the requirement for forward-looking, Ten Year Site Plans (TYSPs); the site and mission-specific blue-print for life-cycle management of site real property assets. All major DOE sites have an accepted or approved TYSP and because TYSPs are "living documents," they are updated annually within the overall planning budget process.

In FY 2005, the Department published its Asset Management Plan under the signature of the Deputy Secretary. This plan has been promulgated throughout the Department as the overall framework for the strategic management of the Department's Real Property Assets.

The Facilities Information Management System (FIMS), the Department's repository of real property information continues to improve. It now contains over 20,000 real property records each containing up to 200 discrete data fields. By the end of FY 2005, all FIMS records were populated with the 23 Federal Real Property Council data elements and metrics. In FY 2006, the 24<sup>th</sup> data field addressing disposition was added. FIMS usage has reached a new high with an active user's group exceeding 350 real property professionals. Realizing the importance of maintaining the accuracy of the FIMS data, in FY 2005 the Department developed a standard, statistical validation process that can be applied at all sites. A formal training class was developed and is offered two times each year available to anyone in the Department. In FY 2007, the

Department successfully implemented the FIMS data validation process and all sites have performed a validation. Sites and Programs now perform annual, self-directed FIMS data validation assessments.

Finally, in FY 2007, the General Accountability Office (GAO) report updating the high risk status of Federal Real Property contained no negative findings or recommendations to the Secretary of Energy. The report noted the Department of Energy:

- Established budget targets for real property management that align with industry standards.
- Establishes funding lines to reduce Program maintenance backlogs.
- Stabilized deferred maintenance growth and has indications overall maintenance backlog is going down.

In FY 2008, data elements were added to FIMS to track the Departments progress towards sustainability goals. Meeting DOE Order 430.2b and Executive Order 13423 Strengthening Federal Environmental, Energy, and Transportation Management requires that by FY 2015 15 percent of the Department's buildings are sustainable.

In FY 2009 the Department:

- Prepared the Federal Real Property Council definition of sustainability and adding sustainability reporting elements within the Facilities Information Management System (FIMS).
- The Office of Science implemented its Mission Readiness Assessment Process and started conducting peer reviews of their laboratories in FY 2009.
- Achieved 100% population of the sustainment data by the FIMS community.
- Partnered with the Federal Accounting Standards Advisory Board (FASAB) and joined FASAB's team tasked within improving the calculation of maintenance cost and deferred maintenance cost.
- Initiated a newsletter "Facilities and Infrastructure Connections" to improve real property management communications within the Department and to publish "Best Practices".
- Drafted an update to the Real Property Management Order to reflect recent guidance and new Executive Orders.
- Continued to improve FIMS data validations and conducted validations at each of the Departments Sites.
- Achieved 2 Million Gross Square Feet (GSF) of disposition; exceeding our target by 100%. (Since FY02, the Department has disposed of 17M GSF).
- Stabilized real deferred maintenance growth and reached a level of maintenance of 2.1% of plant replacement value – up from 2.0%.

In FY 2010 the Department:

- Secretary directed all new and replacement roofs to be cool roofs where economically feasible.
- DOE established data elements in FIMS to track and measure progress in meeting sustainability targets and to track cool roof installation.
- Began reporting asset management related sustainability data for 100% of its owned, contractor and DOE Leased buildings.

- Served as a liaison between the FRPC and the Interagency Sustainability Working Group (ISWG) and keeps the FRPC advised of ISWG activities.
- Offered first of LEED for New Construction and Existing Buildings class.
- As of March 2010, over 300 facilities professionals trained in Real Property Asset Management, DOE O 430.1B.
- Developed validation procedures and processes for FIMS sustainability data fields.
- Enhanced IFI Cross Cut Template to include sustainability-related budget requests.
- The Department's Strategic Sustainability Performance Plan (SSPP) approved by OMB and CEQ.
- Conducted FIMS Workshop with first ever "Green Day" with several expert speakers from outside of DOE.
- Real Property Cost Savings and Innovation Plan compiled with projected savings of over \$247M.
- Established green house gas (GHG) baseline and targets.
- Disposed of 350 real property assets, with RPV of \$862 M, reducing DOE's footprint by 2 M square feet as of September 30, 2010.

In FY 2011 the Department:

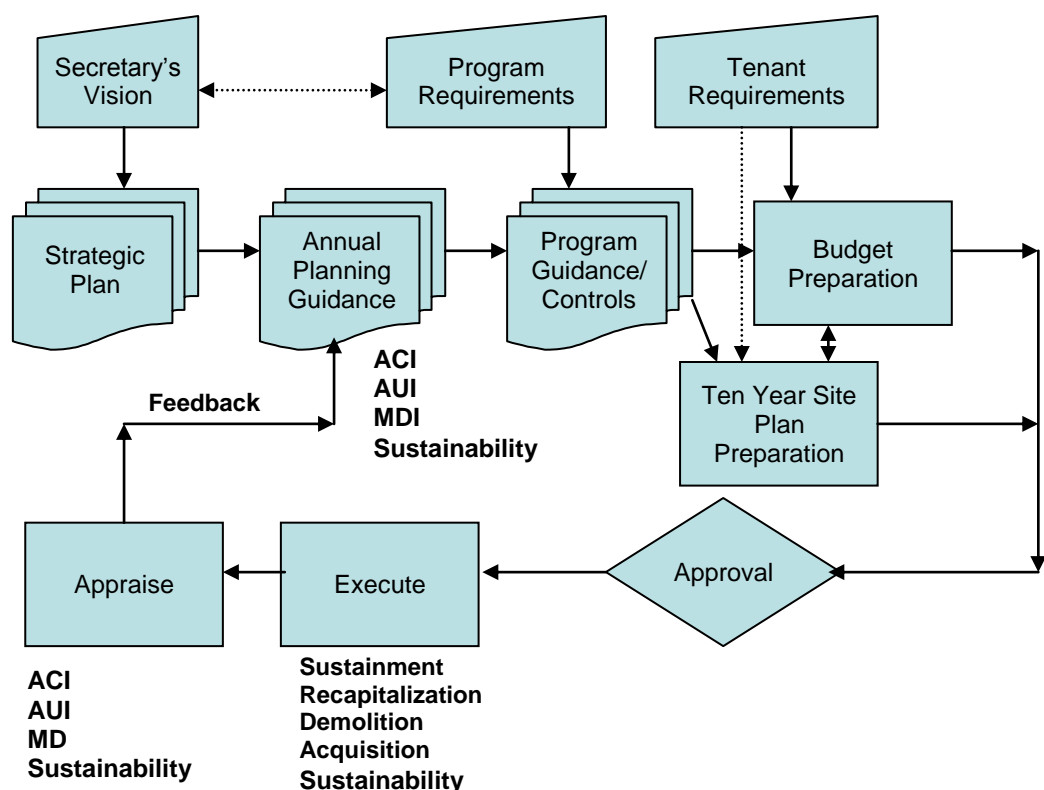
- Disposed of 205 real property assets, with RPV of \$1.2 billion, reducing DOE's footprint by 4.4 M square feet as of September 30, 2011.
- Conducted FIMS data validations at all major DOE sites.
- Updated FIMS Data Dictionary definitions.
- Updated Departmental guidance for railroad bridge inspection frequency and inspection requirements for non-operational bridges
- Drafted guidance and template for collection of the agency's National Bridge Inventory record data for public vehicle bridges.
- Cancelled DOE P 430.1, Land and Facility Use Planning and DOE P 580.1, Management Policy for Planning, Programming, Budgeting, Operation, Maintenance and Disposal of Real Property. Requirements consolidated in DOE O 430.1B, Real Property Asset Management.
- 6 F&I staff engineers received the International Facility Management Association's Certified Facility Manager designation.
- Completed assessment of 31 Program-submitted Ten Year Site Plans.
- Conducted FIMS/Real Estate Workshop which included a "Green Day" with several expert speakers from outside of DOE speaking on sustainability.

This update of the Three-Year Rolling Timeline builds on our success in real property management by identifying activities that encourage timely and accurate reporting of real property data, targeting the continued disposition of unneeded assets, looking for efficiencies in operating costs, focusing on long-term improvement to real property utilization and condition, and promoting sustainability in new construction and major renovations of existing buildings.

### **1.3 FACILITIES PLANNING PROCESS**

The management of real property assets must take a corporate, holistic, and performance-based approach to real property life-cycle asset management that links real property asset planning, programming, budgeting, and evaluation to program mission projections and performance outcomes. Acquisitions, sustainment, recapitalization, and disposal should be balanced to ensure real property assets are available, utilized, and in a suitable condition to accomplish DOE's mission.

Figure (1) is the DOE facilities planning process. It begins with the DOE Strategic Plan and Asset Management Plan that establish the Secretary's long range vision for the Department. The near-term direction is contained in the Secretary's Strategic Resources Review (SRR) and Program Resources Memorandums (PRM) which covers a five-year time horizon and communicates specific requirements and expectations to the Programs. The Programs issue Program Guidance to sites containing specific site requirements and expectations based upon guidance from the Secretary and other sources. The site-wide Ten Year Site Plan (TYSP) is prepared based on program guidance and locally identified requirements, including tenant requirements. The TYSPs are reviewed and approved by the responsible Lead Program Secretarial Office (LPSO). The LPSOs ensure that the TYSPs are consistent with the Integrated Facilities Infrastructure (IFI) Crosscut budget. The TYSP process serves as the communication vehicle to ensure that expectations and accountabilities are clearly delineated and understood. Ten Year Site Plans establish expectations against which outcomes can be measured and form the foundation for DOE's Real Property Asset Management Plan. TYSPs are updated to reflect changing needs, priorities, and fiscal decisions. This is a dynamic, continuous process that provides documented opportunities for direction, planning, execution, feedback, and adjustment.



**Figure 1: Department of Energy Facilities Planning Process**

The IFI Crosscut budget exhibit, together with the Department facilities and infrastructure data, and TYSP are used in making reasoned and informed decisions on the management of its real property assets. They establish a baseline against which DOE can assess past facilities performance and make adjustments to improve future facilities performance.

#### **1.4 PERFORMANCE MEASUREMENT FRAMEWORK**

DOE has established a performance measurement framework in alignment with the Federal Real Property Council Guidelines that includes management information systems to collect and report on facilities data and numerical indicators to reflect portfolio-wide facilities status. Included in these measures are asset condition, asset utilization, and maintenance expenditures against quarterly budget targets. Lower tier measures are used by Programs to support assessment of mission specific requirements. Analysis of this data is used to assess outcomes against objectives and

based on the results of this analysis, course corrections are made when warranted through input into the Secretary's planning guidance. Each Program is assessed quarterly to determine how they are meeting the goals of the Three Year Rolling Timeline. This assessment is done using the MA F&I Quarterly Performance Rating Evaluation Worksheet. This process forms a continuous cycle of measurement, evaluation, and feedback.

## 1.5 DESIRED MANAGEMENT OUTCOMES AND ASSOCIATED MEASUREMENTS

**Figure 2** identifies specific real property performance targets and desired outcomes. These targets are consistent with the Department of Energy Asset Management Plan as well as the Federal Real Property Council Guidance.

DOE Performance Measures Matrix FY 2012 TYRT Update										
Performance Measures		Baseline	Actual	Target						Comments
		FY 2008	FY 2010	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Long Term	
<b>Asset Utilization Index</b> <small> <math>ACI = (\text{Sum of Utilized GSF for Asset Group} / \text{Sum of Total GSF for Asset Group}) \times 100</math> ; Utilized GSF = Utilization (%) x GSF of Asset </small>	Office (10)	90%	89%	90%	90%	90%	90%	90%	95%	Excludes Closure Sites. Closure sites include: Mound, Fernald, Rocky Flats, Ashtabula, and Weldon Springs. Criteria: All owned buildings and Trailers. Excludes outgranted assets.
	Warehouse (41)	91%	91%	85%	85%	85%	85%	85%	85%	
	Laboratory (74)	89%	84%	85%	85%	85%	85%	85%	85%	
	Hospital (21)	98%	96%	90%	90%	90%	90%	90%	90%	
	Housing (30,31)	92%	91%	95%	95%	95%	95%	95%	95%	
Disposition - Excess Elimination (\$RPV)		\$1,026M	\$871M	\$300M	\$450M	\$400M	\$300M	\$300M	-	Criteria: FIMS archive. Buildings, trailers, and OSFs.
Disposition - Excess Elimination (square feet)		1,418,007	2,047,791	1,200,000	1,300,000	1,300,000	500,000	777,859	-	Criteria: FIMS archive. Buildings, trailers, and OSFs.
<b>Asset Condition Index</b> <sup>1</sup> <small> <math>ACI = 1 - (\text{Deferred Maintenance} / \text{Replacement Plant Value})</math> </small>	Mission Critical	0.969	0.974	0.970	0.971	0.972	0.973	0.974	0.980	Criteria: All operating assets (FIMS status codes 1, 2, 3, 6 and 7). Includes owned buildings, trailers and OSFs.
	Mission Dependent	0.920	0.929	0.924	0.925	0.925	0.926	0.927	0.930	
	Not-Mission Dependent	0.911	0.915	0.920	0.920	0.920	0.920	0.920	0.920	
Asset Condition Index Department (ACI) - Wide <sup>1</sup>		.946	0.953	0.950	0.950	0.950	0.950	0.950	0.950	Criteria: Same as above. Assumes Maintenance at Industry Standard Levels of 2-4% of Replacement Plant Value and continued funding of Deferred Maintenance Reduction Program.
Operating Costs - Energy Consumption (BTU/SF). EISA of 2007 Sec 431 and EO 13423 3% annual reduction or 30% reduction by 2015		FY 2003 Baseline 227,370	193,410	193,265	186,443	179,622	172,801	165,980	159,159	Criteria: Energy use subject to EO 13423 minus offset allowed for renewable energy purchases. Baseline and targets provided by the Federal Energy Management Program (FEMP).
Operating Costs - Operations (\$/SF) <sup>2</sup> FY 2008 Constant Dollars		\$1.51	\$1.61	\$1.59	\$1.63	\$1.67	\$1.71	\$1.74	-	Criteria: Includes grounds, janitorial, pest control, refuse, recycling, and snow removal. Owned buildings and Trailers.
<b>Sustainability - High Performance Sustainable Building (HPSB) - Achieved 100% of Guiding Principle Points</b>	Number of Buildings	0.5%	1.20%	5%	7%	9%	11%	13%	15%	Criteria: All DOE owned or leased buildings and trailers. Excluded are buildings and trailers 5,000 SF or less or Estimated Disposition Year must be less than 2016.
	Square Footage of Buildings	1.60%	2.40%	5%	7%	9%	11%	13%	15%	

<sup>1</sup> Program specific mission dependency ACI targets and ACI targets are tailored to the individual program's mission needs and may differ from the overarching DOE corporate targets .

<sup>2</sup> Increases due only to inflation.

**Figure 2: Summary of Targets**

## SECTION 2: Performance Measures

Actions taken in the Three-Year Timeline lead to meeting the goals and objectives of the Department's Asset Management Plan (AMP) to improve the Department's real property portfolio by aggressively pursuing activities that will lead to improved facility condition, disposal of excess and under utilized property, improve asset utilization and maintain the inventory at the right cost to ensure the department's multi-faceted mission is accomplished effectively and efficiently.

### 2.1 Asset Utilization

**2.1.1 Improve Asset Utilization Index (AUI)** – AUI is the Department's corporate measure of facilities and land holdings against requirements. AUI is the Department's equivalent to the FRPC "Utilization" measure. The index reflects the outcome from real property acquisition and disposal policy, planning, and resource decisions. The goal is for the AUI to approach 1. The index utilizes gross square feet (GSF) and is the ratio of utilized GSF of an asset group (numerator) to the sum of total GSF for a Group of facilities, including shutdown assets (denominator). The AUI is derived from data in FIMS obtained from annual utilization surveys. The AUI improves as excess facilities are eliminated and consolidation increases the space utilization rate of the remaining facilities. See figure 3.

### DOE Goals for Asset Utilization

DOE Performance Measures Matrix FY 2012 TYRT Update											
Performance Measures		Baseline	Actual	Target						Achieve Target	Comments
		FY 2008	FY 2010	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Long Term		
<b>Asset Utilization Index</b> <small> <math>AUI = (\text{Sum of Utilized GSF for Asset Group} / \text{Sum of Total GSF for Asset Group}) \times 100</math>  <math>GSF = \text{Utilization (\%)} \times \text{GSF of asset}</math> </small>	Office (10)	90%	89%	89%	89%	89%	90%	90%	95%	2020	Excludes Closure Sites. Closure sites Include: Mound, Fernald, Rocky Flats, Ashtabula, and Weldon Springs. <b>Criteria:</b> All owned buildings and Trailers. Excludes outgranted assets.
	Warehouse (41)	91%	91%	85%	85%	85%	85%	85%	85%	2007	
	Laboratory (74)	89%	84%	85%	85%	85%	85%	85%	85%	2006	
	Hospital (21)	98%	96%	90%	90%	90%	90%	90%	90%	2007	
	Housing (30,31)	92%	91%	95%	95%	95%	95%	95%	95%	2006	

**Figure 3: AUI Targets**

The FRPC has assigned utilization guidelines for five categories of facilities. The Department has set AUI goals as shown in the table above. These targets were set based on FRPC guidelines and what is estimated to be fully utilized in each of the five categories based on DOE's space utilization experience. The Department will use the data validation program discussed under **Action item 3.3 Update and Validate FIMS Data** to continue the analysis and validation of the reported utilization data. The Department has an extensive Deactivation and Decommissioning (D&D) program which is expected to dispose of about 4 million Square feet over the next three years which is expected to help maintain and possibly improve our current AUI.

**2.1.2 Eliminate Excess and Underutilized Assets** – Each year the Department

reports to management square footage of facilities eliminated by sale, transfer, or demolition. The Department has eliminated over 24M SF from FY 2002 to FY 2011 and has targeted elimination of additional excess as shown in the table below. See figure 4.

#### Summary of Excess Elimination

DOE Disposition Plan FY 2012 to FY 2014									
	RPV (\$ million)			GSF (000)			Number of Assets		
Fiscal Year	2012	2013	2014	2012	2013	2014	2012	2013	2014
Target	\$400	\$300	\$300	1,300	500	778	70	61	135
Target FY 12 to FY 14	\$1,000			2,578			266		
<sup>1</sup> This excess disposition plan is within current budget projections.									

#### Figure 4: DOE's Disposition Plan

**Attachment 1** provides a list of individual assets by Program and Site that are planned to be disposed of to meet the Department's objectives from FY 2012 – FY 2014.

#### **Measure – Reduction of Non – Mission Dependent Assets**

Targets have been established for the next two years to continue an aggressive program for disposing of excess property. Excess elimination is a major element of the Programs' TYSPs. The ultimate goal is to move the Department to the point where less than five percent of real property assets are under-utilized or excess. See figure 5.

FY 2011 Department of Energy Disposition Summary - Buildings, Trailers and OSFs - FY 2011 Status as of September 26, 2011									
FY	Target			Actual Eliminated			% of Target Eliminated (RPV)	Cost Avoidance/Yr Based on \$1.90/SF	Cumulative RPV of Assets Eliminated
	RPV	# Of Assets	GSF	RPV	# Of Assets	Gross Sq Feet			
FY 02	N/A	N/A	N/A	\$322,545,118	379	1,537,809	-	\$2,921,837	\$322,545,118
FY 03	N/A	N/A	N/A	\$313,800,817	420	1,140,524	-	\$2,166,996	\$636,345,935
FY 04	N/A	N/A	N/A	\$678,724,838	536	2,878,328	-	\$5,468,823	\$1,315,070,773
FY 05	\$1,029,311,442	473	4,111,764	\$1,047,538,247	488	4,101,396	102%	\$7,792,652	\$2,362,609,020
FY 06	\$788,456,532	270	1,773,232	\$1,352,580,138	625	2,802,315	172%	\$5,324,399	\$3,715,189,158
FY 07	\$550,347,778	208	1,414,961	\$595,332,143	243	1,568,137	108%	\$2,979,460	\$4,310,521,301
FY 08	\$312,272,791	114	782,388	\$1,029,579,616	219	1,418,007	330%	\$2,694,213	\$5,340,100,917
FY 09	\$251,405,535	174	898,302	\$630,413,419	342	2,135,240	251%	\$4,056,956	\$5,970,514,336
FY 10	\$300,000,000	125	1,200,000	\$871,217,491	365	2,047,791	290%	\$3,890,803	\$6,841,731,827
FY 11	\$450,000,000	172	1,300,000	<b>\$1,496,066,049</b>	<b>348</b>	<b>4,579,567</b>	<b>332%</b>	\$8,701,177	\$8,337,797,876
FY 12	\$400,000,000	70	1,300,000						
FY 13	\$300,000,000	61	500,000						
FY 14	\$300,000,000	135	777,859						
TOTAL FY02 - FY12	-	-	-	\$8,337,797,876	3,965	24,209,114	-	\$45,997,317	\$8,337,797,876
TOTAL FY05 - FY12	\$4,081,794,078	1,606	12,780,647	\$7,022,727,103	2,630	18,652,453	-	\$35,439,661	\$4,655,443,563

**Figure 5: Summary of DOE's Dispositions**

Real property inventory is managed to ensure that inventory which is not fully utilized or excess to identified needs is minimized through either reuse or disposal. The Department employs the following policies to identify, reuse, or dispose of under-utilized real property assets.

- Programs annually identify project/program/mission terminations.
- Programs and Sites identify under-utilized property in TYSP and FIMS.
- Programs include site specific disposal plans in their TYSP.
- The Department screens declared excess real property with other Programs to determine if property is needed.
- The responsible Program plans and programs the elimination of excess real property through reuse, demolition, disposal, transfer, or sale based on reducing risks and minimizing life-cycle costs.
- The Department offsets replacement and new construction square footage with elimination of excess square footage on a one-for-one basis.

#### **Milestones**

- **1Q FY12:** Sites Update the Estimated Disposition Year in FIMS.
- **1Q FY13:** Sites Update the Estimated Disposition Year in FIMS.

- **1Q FY14:** Sites Update the Estimated Disposition Year in FIMS.

### **Update Dispositions Quarterly**

- **1Q FY 12:** OECM will provide OMB disposition update.
- **2Q FY 12:** OECM will provide OMB disposition update.
- **3Q FY 12:** OECM will provide OMB disposition update.
- **4Q FY 12:** OECM will provide OMB disposition update.
- **1Q FY 13:** OECM will provide OMB disposition update.
- **2Q FY 13:** OECM will provide OMB disposition update.
- **3Q FY 13:** OECM will provide OMB disposition update.
- **4Q FY 13:** OECM will provide OMB disposition update.
- **1Q FY 14:** OECM will provide OMB disposition update.
- **2Q FY 14:** OECM will provide OMB disposition update.
- **3Q FY 14:** OECM will provide OMB disposition update.
- **4Q FY 14:** OECM will provide OMB disposition update.

### **Results**

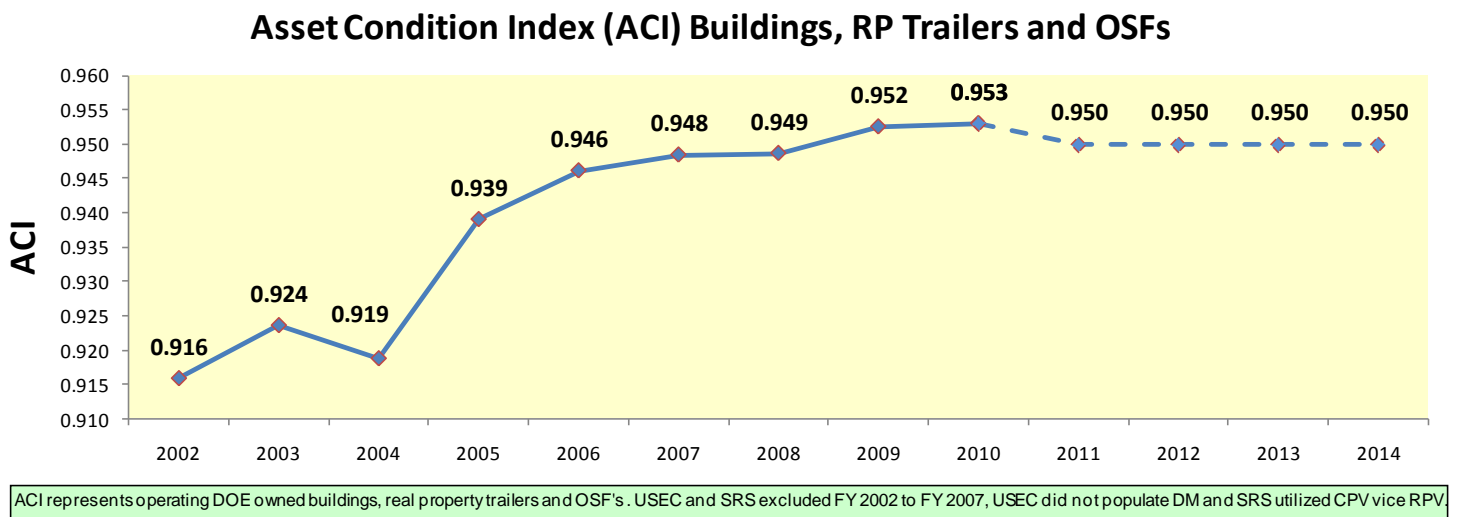
- Disposal of excess and under-utilized assets.
- Improvement in AUI.

### **2.2 Asset Condition Index**

The Department's real property assets are vital to the accomplishment of its mission. Real property assets are an enabler that cuts across all of DOE's activities. The index is calculated using the following formula:  $1 - (\text{Deferred Maintenance} / \text{Replacement Plant Value})$ . Quality facilities are required to provide a safe workplace that support mission requirements. The Department will request adequate infrastructure funding. There are two components of infrastructure funding: sustainment - to maintain real property inventory from deteriorating and recapitalization - to address deferred maintenance backlog and improve asset condition.

- Sustainment consists of maintenance and repair activities necessary to keep the inventory of facilities in good working order. Sustainment includes regularly scheduled maintenance and anticipated major repairs or replacement of components that occur periodically over the expected service life of the facilities. Lack of sufficient levels of sustainment can result in a reduction in service life, increasing deferred maintenance and declining ACI.
- Facilities eventually wear out or become outdated and incapable of supporting mission needs. These facilities will be replaced, recapitalized, or disposed of if excess to needs. Recapitalization extends the service life of facilities or restores lost service life and consists of alterations and betterments needed to keep existing facilities modern and relevant in an environment of changing standards and missions. Recapitalization investments do not sustain facilities and will, therefore, be complemented by an effective sustainment program to protect the facility.
- Increasing sustainment funding began improving the Department's ACI in FY05. By continuing adequate sustainment funding, reducing deferred maintenance through

recapitalization programs and improving the quality of facilities data, it is expected that ACI will stabilize or improve over time. See figure 6.



**Figure 6: ACI Graph**

**Attachment 2** provides a list of major maintenance, repair, and deferred maintenance reduction projects estimated to cost \$5M and over by Program and Site planned to be funded from FY 11 – FY13 to stabilize or improve the Department's ACI. It is likely that some of these projects will change based on FY 2012 budget decisions. This attachment will be updated each year based on revisions to TYSPs and budget decisions.

**2.2.1 Improve Asset Condition** – The Department has implemented a funding/budgeting strategy to provide a funding profile to improve the Asset Condition Index (ACI) of DOE mission critical facilities from 0.959 to 0.98.

- The Department's goal is to link mission dependency with the asset condition index to ensure those real property assets that are most closely related to mission accomplishment are properly maintained. The Department has set the following goals for ACI as related to mission dependency.
  - Mission critical assets greater than .98
  - Mission dependent not Critical greater than .93
  - Not mission dependent greater than .92.
- Program specific mission dependency targets are tailored to the individual program's mission needs and may differ from the overarching DOE corporate mission dependency targets shown above.

#### **Milestones**

- **1Q FY12** – Update Quarterly Maintenance Report for 4<sup>th</sup> Qtr FY 2011.

- **2Q FY12** – Update major maintenance and repair projects list. Projects over \$5M.
- **2Q FY12** – Update Quarterly Maintenance Report for 1st Qtr FY 2012.
- **3Q FY12** – Update Quarterly Maintenance Report for 2<sup>nd</sup> Qtr FY 2012.
- **4Q FY12** – Update Quarterly Maintenance Report for 3rd Qtr FY 2012.
- **4Q FY12** – Use the ACI prediction model to evaluate FY14 – FY18 Program budget submissions. Estimate ACI in out years based on sustainment funding and deferred maintenance reduction program. **See Action item 2.2.1.2 Utilize a Facilities Recapitalization/Renewal Strategy.**
- **1Q FY13** – Update Quarterly Maintenance Report for 4<sup>th</sup> Qtr FY 2012.
- **2Q FY13** – Update major maintenance and repair projects list. Projects over \$5M.
- **2Q FY13** – Update Quarterly Maintenance Report for 1st Qtr FY 2013.
- **3Q FY13** – Update Quarterly Maintenance Report for 2<sup>nd</sup> Qtr FY 2013.
- **4Q FY13** – Update Quarterly Maintenance Report for 3rd Qtr FY 2013.
- **4Q FY13** – Use the ACI prediction model to evaluate FY15 – FY19 Program budget submissions. Estimate ACI in out years based on sustainment funding and deferred maintenance reduction program. **See Action item 2.2.1.2 Utilize a Facilities Recapitalization/Renewal Strategy.**
- **1Q FY14** – Update Quarterly Maintenance Report for 4<sup>th</sup> Qtr FY 2013.
- **2Q FY14** – Update major maintenance and repair projects list. Projects over \$5M.
- **2Q FY14** – Update Quarterly Maintenance Report for 1st Qtr FY 2014.
- **3Q FY14** – Update Quarterly Maintenance Report for 2<sup>nd</sup> Qtr FY 2014.
- **4Q FY14** – Update Quarterly Maintenance Report for 3rd Qtr FY 2014.
- **4Q FY14** – Use the ACI prediction model to evaluate FY16 – FY20 Program budget submissions. Estimate ACI in out years based on sustainment funding and deferred maintenance reduction program. **See Action item 2.2.1.2 Utilize a Facilities Recapitalization/Renewal Strategy.**

## Results

- Targeted ACI based on Mission Dependency. See figure 7. Targets scarce budget dollars on those real property assets that are most critical to mission accomplishment.

## Measure – ACI Targets Based on Mission Dependency

DOE Performance Measures Matrix FY 2012 TYRT Update											
Performance Measures		Baseline	Actual	Target						Achieve Target	Comments
		FY 2008	FY 2010	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Long Term		
Asset Condition Index <sup>1</sup> <i>ACI = 1 - (Deferred Maintenance / Replacement Plant Value)</i>	Mission Critical	0.969	0.974	0.970	0.971	0.972	0.973	0.974	0.980	2020	Criteria: All operating assets (FIMS status codes 1, 2, 3, 6 and 7). Includes owned buildings, trailers and OSFs.
	Mission Dependent	0.920	0.929	0.924	0.925	0.925	0.926	0.927	0.930	2015	
	Not-Mission Dependent	0.911	0.915	0.920	0.920	0.920	0.920	0.920	0.920	2015	
Asset Condition Index Department (ACI) - Wide <sup>1</sup>		.946	0.953	0.950	0.950	0.950	0.950	0.950	0.950	2010	Criteria: Same as above. Assumes Maintenance at Industry Standard Levels of 2-4% of Replacement Plant Value and continued funding of Deferred Maintenance Reduction Program.
<sup>1</sup> Program specific mission dependency ACI targets and ACI targets are tailored to the individual program's mission needs and may differ from the overarching DOE corporate targets .											

**Figure 7: ACI Targets**

Benchmarking with NACUBO, the Department has established ACI targets based on mission dependency. For mission critical assets the target exceeds NACUBO's recommendation of a .95 ACI for a facility to be in "good" condition. Mission dependent facilities will be targeted for an ACI of .93 which corresponds to a NACUBO rating of "fair", not mission dependent assets will be targeted for an ACI of greater than .92 which corresponds to a NACUBO rating of "fair". Not mission dependent will be essentially funded for environmental, safety and security requirements until they can be disposed of. Using this funding strategy it is believed the Department can improve the condition of those assets most important to mission accomplishment without a budget increase. It is expected these targets can be arrived at by redirecting sustainment funds, disposing of excess assets, consolidating under-utilized facilities and improving the accuracy of the Department's facility data.

**2.2.1.1 Budget Adequate Sustainment Funding** - The Department realizes one of the key elements of maintaining a good quality facility portfolio is proper sustainment funding. The Department's goal is to budget sustainment of operating real property assets at the National Research Council recommended level of two to four percent of Replacement Plant Value (RPV). The 2-4% RPV sustainment funding is an overarching Departmental corporate goal and that sustainment funding may vary by program depending upon the program's mission needs. Where a substantial deferred maintenance backlog exists, a recapitalization program will be developed as described in **Action Item 2.2.1.2 Utilize a Facilities Recapitalization/Renewal Strategy**.

- Since FY 2002 the department has increased sustainment funding from 1.34 to 1.95 percent. The near term goal is to increase sustainment to two percent of RPV and avoid deferred maintenance growth. Benchmarking with the National Research Council (NRC) led to adapting their recommendation of two to four percent of RPV. DOE has determined that targeting sustainment funding on mission dependency to ensure scarce sustainment dollars are spent on those assets most important to mission accomplishment will have the least impact on resources. Non-operating facilities will be sustained to ensure compliance with environmental, safety, health, and security standards.
- Since 2002, increased sustainment funding has stabilized deferred maintenance and ACI as shown in the **ACI graph on page 13**.
- Achieving sustainment of two percent of RPV does not necessarily require a budget increase. It is expected that this target can be arrived at by redirecting funds into sustainment, disposing of excess facilities and consolidating under-utilized facilities.
- Asset Condition Targets have been set based on benchmarking with the National Association of College and University Business Officers (NACUBO). NACUBO has identified an ACI of .95 as Good, an ACI of .90 as fair, and an ACI below .90 as poor. DOE has established a target of .98 for mission critical assets, .93 for mission dependent assets, and .92 for not mission dependent assets.

## **Milestones**

- **2Q FY12** – Analyze results of the FY11 Federal Real Property Profile data reporting to include progress made under performance measures and achievement of interim targets. As appropriate, prepare a plan of actions and milestones based on the outcome of the analysis
- **2Q FY12** – Submit FY 2013 Congressional IFI Crosscut Budget.
- **2Q FY12** – Incorporate real property requirements and issues into the Departmental Planning Guidance for FY 2014-2018 budget development. Planning and budget guidance will be developed yearly to ensure Program IFI crosscut budget submissions provide all required information necessary to allow Facility and Infrastructure to analyze the Program's budget submissions to ensure adequate levels of funding have been identified to sustain DOE's real property assets.
- **2Q FY12** – Analyze Program RPV and DM. Come to an agreement with OECM on the Program's RPV and DM based on FY 2011 snapshot. The agreed upon values for RPV and DM will be used in the FY 2014 budget cycle to calculate required sustainment and ACI respectfully.
- **3Q FY12** – Programs submit FY 2014 IFI Crosscut Budget PRM Submission - approved at Program's headquarters level, and in accordance with budget guidance.
- **3Q FY12** – Review and analyze Integrated Facilities and Infrastructure (IFI) crosscut budget against sustainment targets to ensure adequate funding is budgeted to support the Department's plan to improve overall facility condition. Utilize the Facilities Information Management System (FIMS) data and proposed maintenance funding to determine if maintenance funding as a percent of RPV is between the DOE target of two to four percent. Contact Programs who have not adequately

funded maintenance in their budget submissions and request that they increase maintenance funding.

- **2Q FY13** – Analyze results of the FY 2012 Federal Real Property Profile data reporting to include progress made under performance measures and achievement of interim targets. As appropriate, prepare a plan of actions and milestones based on the outcome of the analysis.
- **2Q FY13** – Submit FY 2014 Congressional IFI Crosscut Budget.
- **2Q FY13** – Incorporate real property requirements and issues into the Departmental Planning Guidance for FY 2015-2019 budget development. Planning and budget guidance will be developed yearly to ensure Program IFI crosscut budget submissions provide all required information necessary to allow Facility and Infrastructure to analyze the Program's budget submissions to ensure adequate levels of funding have been identified to sustain DOE's real property assets.
- **2Q FY13** – Analyze Program RPV and DM. Come to an agreement with OEMC on the Program's RPV and DM based on FY 2012 snapshot. The agreed upon values for RPV and DM will be used in the FY 2015 budget cycle to calculate required sustainment and ACI respectfully.
- **3Q FY13** – Programs submit FY 2015 IFI Crosscut Budget PRM Submission - approved at Program's headquarters level, and in accordance with budget guidance.
- **3Q FY13** – Review and analyze Integrated Facilities and Infrastructure (IFI) crosscut budget against sustainment targets to ensure adequate funding is budgeted to support the Department's plan to improve overall facility condition. Utilize the Facilities Information Management System (FIMS) data and proposed maintenance funding to determine if maintenance funding as a percent of RPV is between the DOE target of two to four percent. Contact Programs who have not adequately funded maintenance in their budget submissions and request that they increase maintenance funding.
- **2Q FY14** – Analyze results of the FY13 Federal Real Property Profile data reporting to include progress made under performance measures and achievement of interim targets. As appropriate, prepare a plan of actions and milestones based on the outcome of the analysis
- **2Q FY14** – Submit FY 2015 Congressional IFI Crosscut Budget.
- **2Q FY14** – Incorporate real property requirements and issues into the Departmental Planning Guidance for FY 2016-2020 budget development. Planning and budget guidance will be developed yearly to ensure Program IFI crosscut budget submissions provide all required information necessary to allow Facility and Infrastructure to analyze the Program's budget submissions to ensure adequate levels of funding have been identified to sustain DOE's real property assets.
- **2Q FY14** – Analyze Program RPV and DM. Come to an agreement with OEMC on the Program's RPV and DM based on FY 2013 snapshot. The agreed upon values for RPV and DM will be used in the FY 2016 budget cycle to calculate required sustainment and ACI respectfully.
- **3Q FY14** – Programs submit FY 2016 IFI Crosscut Budget PRM Submission - approved at Program's headquarters level, and in accordance with budget guidance.
- **3Q FY14** – Review and analyze Integrated Facilities and Infrastructure (IFI) crosscut budget against sustainment targets to ensure adequate funding is budgeted to

support the Department's plan to improve overall facility condition. Utilize the Facilities Information Management System (FIMS) data and proposed maintenance funding to determine if maintenance funding as a percent of RPV is between the DOE target of two to four percent. Contact Programs who have not adequately funded maintenance in their budget submissions and request that they increase maintenance funding.

## **Results**

- Ensures resources are aligned with the Department's real property plan and the plan is aligned with available resources.
- Encourages more consistent and uniform sustainment funding.  
Stabilize the overall condition of the Department's real property portfolio as indicated by ACI.

**2.2.1.2 Utilize a Facilities Recapitalization/Renewal Strategy** – If a Program's ACI is below the Department's target ACI, the Program will develop a recapitalization strategy to improve the condition of their facilities and apply principles of sustainability in major renovations. This will keep DOE facilities modern and relevant in an environment of changing standards and missions.

- Recapitalization requirements are in addition to sustainment activities (i.e., maintenance and repair) and consist of alterations and betterments to replace or modernize existing facilities.
- Recapitalization activities are traditionally funded by General Plant Projects (GPPs), Institutional General Plant Projects (IGPPs), or line item projects.
- Programs will evaluate the relative importance and contributions of all real property assets to mission accomplishment. A holistic systems approach will be used to identify those facilities and infrastructure assets that directly contribute to the accomplishment of the assigned mission or mitigation of environment, safety, and health issues. The mission dependency determination will be based upon program assigned mission requirements.
- The Department has developed a recapitalization model to help assess resource requirements to meet the Department's goals for ACI.

## **Milestones**

- **3Q FY12** – IFI cross cut budgets. Include Deferred Maintenance Reduction Program in IFI cross cut budgets at 1% of RPV if overall ACI < .95.
- **3Q FY13** – IFI cross cut budgets. Include Deferred Maintenance Reduction Program in IFI cross cut budgets at 1% of RPV if overall ACI < .95.
- **3Q FY14** – IFI cross cut budgets. Include Deferred Maintenance Reduction Program in IFI cross cut budgets at 1% of RPV if overall ACI < .95.

## **Results**

- Provides DOE senior leadership objective visibility of facilities and infrastructure condition targets. ACI is calculated yearly.
- Provides leadership information to make informed management decisions.
- Aligns Asset Management Plan, five year budget and Ten Year Site Plans.
- Improves resources available to execute the Department's Strategic Plan and Asset Management Plan.
- Allows tracking of progress towards condition targets.

## **2.3 Manage Operating Costs**

**2.3.1 Actions To Manage Operating Costs** - Annual operating and maintenance cost as defined by the FRPC consists of recurring maintenance and repair costs, utilities, cleaning and janitorial costs, and roads and grounds maintenance costs. Recurring maintenance and repair cost is reported in the Facilities Information Management System at the constructed asset level for buildings, trailers, and other structures and facilities. Energy consumption data is collected at the site level. Facilities services cost is collected at the site level but is not currently segregated from other operating costs. The Department will report actual costs at the constructed asset level where available and allocate site level costs to the constructed asset level where actual asset-level costs are not available. Collection of this data will enable DOE to look across its portfolio to assess the efficiency and effectiveness of facilities operations and identify opportunities to reduce operating costs. See figure 8.

Energy represents approximately one fourth of the Departments operating costs. Reducing energy costs will have the greatest impact on reducing overall operating costs. The Department has established an implementation plan for energy conservation and realization of the goals contained in EO 13123, Greening the Government Through Efficient Energy Management and EO13423, Strengthening Federal Environmental, Energy, and Transportation Management. DOE Order 436.1 implements these EO's and mandates that all sites work towards meeting energy intensity goals. The Department collects and monitors annual energy usage data on all facilities to track progress against energy reduction goals. The Department has exceeded the goal of a 35 percent reduction in building energy consumption per square foot from the 1985 baseline, achieving a 51 percent reduction through FY 2004. The Department established a new annual goal of an additional three percent year-to-year reduction over the FY 2003 baseline starting in FY 2006 as required in E.O.13423 and implemented in DOE Order 436.1.

It is expected that maintenance and repair will remain constant over the next several years due to budget constraints however, it is expected the Department will be able to make modest improvements in ACI and arrest the growth of deferred maintenance.

## Measure – Management of Operating Costs

DOE Performance Measures Matrix FY 2012 TYRT Update										
Performance Measures	Baseline	Actual	Target						Achieve Target	Comments
	FY 2008	FY 2010	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Long Term		
Operating Costs - Energy Consumption (BTU/SF). EISA of 2007 Sec 431 and EO 13423 3% annual reduction or 30% reduction by 2015	FY 2003 Baseline 227,370	193,410	193,265	186,443	179,622	172,801	165,980	159,159	2015	Criteria: Energy use subject to EO 13423 minus offset allowed for renewable energy purchases. Baseline and targets provided by the Federal Energy Management Program (FEMP).
Operating Costs - Operations (\$/SF) <sup>2</sup> FY 2008 Constant Dollars	\$1.51	\$1.61	\$1.59	\$1.63	\$1.67	\$1.71	\$1.74	-	2007	Criteria: Includes grounds, janitorial, pest control, refuse, recycling, and snow removal. Owned buildings and Trailers.

<sup>2</sup> Increases due only to inflation.

**Figure 8: Operating Cost Targets**

### 2.4 High Performance Sustainable Buildings (HPSB)

**2.4.1 Improve Sustainability** - New Federal drivers in the area of high performance sustainable buildings (HPSB) directly impact DOE. Executive Order (EO) 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, EO 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*, and DOE Order 436.1 requires:

- New construction and major renovations of agency buildings will comply with the Guiding Principles set forth in the Memorandum of Understanding on Federal Leadership in HPSB
- Fifteen percent of the agency's existing building inventory at the end of fiscal year 2015 will incorporate the Guiding Principles.

The Department has stood up a High Performance Sustainable Building Working Group (HPSBWG) led by OECM.

The Department has identified the Deputy Secretary as the Senior Sustainability Officer. A Strategic Sustainability Performance Plan has been drafted and approved by the Office of Management and Budget and the Council for Environmental Quality.

The Guiding Principles (GP) set specific goals for integrated design usage, energy performance optimization, water protection and conservation, enhanced indoor environmental quality, and reduced environmental impact of materials. The goal of these EO's is to implement these principles not only in new construction, but also in major renovations and existing buildings, resulting in numerous mission, energy security and environmental benefits, such as:

- reducing the total (life-cycle) ownership cost of facilities;
- improving energy efficiency and water conservation;
- providing safe, healthy, and productive built environments; and
- Enhancing sustainable environmental stewardship at DOE sites.

**HPSB Compliance:** The methodology assesses compliance with the GPs by identifying the buildings and trailers in the candidate pool that have met 100% of the GPs through either a new construction / major renovations (NC) path or an existing buildings (EB) path as recorded in the Facility Information Management System (FIMS).

The methodology produces two compliance ratios, one based on building count and the second on building area. The OMB Sustainability Scorecard identifies an interim target (proportionally less than the 2015 15% target by the number of years away from the target) and when meeting or surpassing it, awards a green when by building count and a yellow when by building area only.

The Department's Strategic Sustainability Performance Plan (SSPP) offers equivalence to meeting the GPs through some levels of LEED certification. The Site Sustainability Plan guidance August 2010 provides some clarification, paraphrased below to indicate accomplishment (see section 2.4.2.2 of the Site Sustainability Plan guidance). For equivalence,

1. Buildings at CD-2 or higher on or before October 1, 2008 may achieve any level of LEED certification by FY 2015;
2. Buildings at CD-1 or lower on or before October 1, 2008, must achieve LEED-NC Gold certification or higher by FY 2015; or,
3. Buildings may achieve LEED-Existing Buildings Operation & Maintenance (EBOM) Silver or higher by FY 2015.

For leases, DOE O 436.1 requires that as of FY 2008 all procurement specification and selection criteria for acquiring new leased space, including built-to-suit lease solicitations, include a preference for buildings that have achieved LEED Gold certification. This implies that DOE or contractor leased buildings with LEED Gold certification or higher have achieved the equivalent of the GPs.

The following table indicates DOE planned targets as mandated in DOE Order 436.1 and EO requirements for sustainability. See figure 9.

### Measure – Percent of High Performance and Sustainable Buildings

DOE Performance Measures Matrix FY 2012 TYRT Update											
Performance Measures		Baseline	Actual	Target						Achieve Target	Comments
		FY 2008	FY 2010	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Long Term		
Sustainability - High Performance Sustainable Building (HPSB) - Achieved 100% of Guiding Principle Points	Number of Buildings	0.5%	1.20%	5%	7%	9%	11%	13%	15%	2015	Criteria: All DOE owned or leased buildings and trailers. Excluded are buildings and trailers 5,000 SF or less or Estimated Disposition Year must be less than 2016.
	Square Footage of Buildings	1.60%	2.40%	5%	7%	9%	11%	13%	15%	2015	

**Figure 9: Sustainability Targets**

**Attachment 3** provides a listing of DOE Green Buildings, buildings that have achieved 100% of the Guiding Principle Points.

#### Milestones

- 1Q FY12 - Report sustainability data to FRPP.
- 1Q FY12 - Update HPSB Scorecard.
- 1Q FY12 - Sites update their Site Sustainability Plans.
- 3Q FY12 – Update Department’s SSPP
- 1Q FY13 - Report sustainability data to FRPP.
- 1Q FY13 - Update HPSB Scorecard.
- 1Q FY13 - Sites update their Site Sustainability Plans.
- 4Q FY13 - Update HPSB Scorecard
- 1Q FY14 - Report sustainability data to FRPP.
- 1Q FY14 - Update HPSB Scorecard.
- 1Q FY14 - Sites update their Site Sustainability Plans.

#### Results

- Provides DOE senior leadership objective visibility of the Department’s progress in facility sustainability.
- Provides management information to make informed decisions.
- Incorporates sustainability into Departmental Orders.
- Tracks progress towards sustainability targets.

### SECTION 3: Other Initiatives to improve Real Property Asset Management

- **3.1 Update Ten Year Site Plans (TYSP)** – The management of real property assets must take a corporate, holistic, and performance-based approach to real property

life-cycle asset management that links real property asset planning, programming, budgeting, and evaluation to program mission projections and performance outcomes. Acquisitions, sustainment, recapitalization, and disposal must be balanced to ensure real property assets are available, utilized, and in a suitable condition to accomplish DOE missions. The TYSPs are the foundation for the integration of all aspects of real property asset management. TYSPs will be utilized to assess real property assets against delineated program requirements at each site. The plans will identify and prioritize real property asset projects and activities required to meet program mission requirements. TYSPs have been developed for each site which address how the site's real property assets will support the Department's Strategic Plan, the Secretary's 5-year planning guidance, and appropriate program guidance. It must be a comprehensive site wide plan encompassing the needs of tenant activities and kept current to reflect current mission requirements and budget realities. Site plans will include a prioritized list of real property investments used by program offices to support resource allocation decisions. TYSPs will be updated annually no later than the third quarter of each fiscal year to reflect updated data submitted to the Federal Real Property Profile (FRPP) as well as the results of the latest budget, including the President's budget, current budget as enacted and the prior year budget.

### **Milestones**

- **1Q FY12** - TYSP guidance issued by OECM.
- **3Q FY12** - Ten Year Site Plans will be updated to include data reported to the Federal Real Property Profile (FRPP) in Q1 FY2012.
- **1Q FY13** - TYSP guidance issued by OECM.
- **3Q FY13** - Ten Year Site Plans updated to include data reported to the Federal Real Property Profile (FRPP) in Q1 FY2013.
- **1Q FY14** - TYSP guidance issued by OECM.
- **3Q FY14** - Ten Year Site Plans will be updated to include data reported to the Federal Real Property Profile (FRPP) in Q1 FY2014.

### **Results**

- Assures integration of current facilities inventory data and strategic mission requirements into the life cycle planning process.
- Allows program budget decisions based on analysis of TYSPs and IFI Crosscut data.
- Increases reliability of facility data through use of data to support management decisions.
- Identifies underutilized and excess property and provides plan for disposal.

**3.2 Generate Quarterly Performance Rating** – Generate a quarterly performance rating at the program level. Report will evaluate and assess relevant facilities and infrastructure measures, metrics and initiatives.

## **Milestones**

- **1Q FY12** – Update program quarterly performance rating.
- **2Q FY12** – Update program quarterly performance rating.
- **3Q FY12** – Update program quarterly performance rating.
- **4Q FY12** – Update program quarterly performance rating.
- **1Q FY13** – Update program quarterly performance rating.
- **2Q FY13** – Update program quarterly performance rating.
- **3Q FY13** – Update program quarterly performance rating.
- **4Q FY13** – Update program quarterly performance rating.
- **1Q FY14** – Update program quarterly performance rating.
- **2Q FY14** – Update program quarterly performance rating.
- **3Q FY14** – Update program quarterly performance rating.
- **4Q FY14** – Update program quarterly performance rating.

## **Results**

- Provides DOE senior leadership objective visibility of facilities and infrastructure measures, metrics and initiatives.
- Promotes real property accountability at all levels of facility-ownership hierarchy.
- Provides visibility that resources targeted for real property maintenance are being spent on maintenance.
- Allows tracking of progress towards condition and utilization goals.
- Encourages timely and efficient expenditure of maintenance funds.
- Underscores corporate facilities and infrastructure goals and objectives.

**3.3 Update and Validate FIMS Data** – Validate FIMS data by site on a yearly basis. FIMS supports DOE's planning and budgeting process, provides accurate facilities data to support budget formulation and execution, provides data used for computation and analysis of DOE's facilities performance measures: Asset Condition Index, Asset Utilization Index, Mission Dependency, and Operating Cost. FIMS data must be maintained as complete and current throughout the life cycle of real property assets, including real property related institutional controls. FIMS data is archived after disposal of real property assets to retain information on disposed assets. To verify accuracy of FIMS data a corporate data validation model is being used to allow both Site/field managers and Headquarters personnel to validate FIMS data and make improvements as necessary to ensure data is accurate.

## **Milestones**

- **1Q FY12** – Programs provide OECM the scheduled FY 2012 dates for FIMS data validations for their sites.
- **1Q FY12** – Update FIMS data base.
- **2Q FY12** – Sites complete scheduled 2<sup>nd</sup> quarter FIMS data validations.
- **3Q FY12** – Sites complete scheduled 3<sup>rd</sup> quarter FIMS data validations.
- **4Q FY12** – Sites complete scheduled 4<sup>th</sup> quarter FIMS Data validations.
- **4Q FY12** – Sites update deferred maintenance in FIMS data base.

- **1Q FY13** – Programs provide OECM the scheduled FY 2013 dates for FIMS data validations for their sites.
- **1Q FY13** – Update FIMS data base.
- **2Q FY13** – Sites complete scheduled 2<sup>nd</sup> quarter FIMS data validations.
- **3Q FY13** – Sites complete scheduled 3<sup>rd</sup> quarter FIMS data validations.
- **4Q FY13** – Sites complete scheduled 4<sup>th</sup> quarter FIMS Data validations.
- **4Q FY13** – Sites update deferred maintenance in FIMS data base.
- **1Q FY14** – Programs provide OECM the scheduled FY 2014 dates for FIMS data validations for their sites.
- **1Q FY14** – Update FIMS data base.
- **2Q FY14** – Sites complete scheduled 2<sup>nd</sup> quarter FIMS data validations.
- **3Q FY14** – Sites complete scheduled 3<sup>rd</sup> quarter FIMS data validations.
- **4Q FY14** – Sites complete scheduled 4<sup>th</sup> quarter FIMS Data validations.
- **4Q FY14** – Sites update deferred maintenance in FIMS data base.

### **Results**

- Establish a consistent, repeatable, bottoms-up approach to quality assurance of facilities data used in day-to-day decision making.
- Encourage a culture of data accuracy and data-driven management decision-making throughout the real property value chain.
- Provide more accurate facilities data from which to establish benchmarks and trends thereby improving resource allocation and management decisions.
- Perform better risk analysis of management decisions through an understanding of data quality.
- Identify and target areas for improvement.

### **Target**

- All major sites validated annually with OECM performing quality assurance validations at up to eight sites per year.

**3.4 Space Utilization** – Determine space utilization at the building level. Benchmark against private and public sector data.

### **Milestones**

- **1Q FY12** Update occupancy data in FIMS.
- **1Q FY13** Update occupancy data in FIMS.
- **1Q FY14** Update occupancy data in FIMS.

### **Results**

- Identify opportunities for disposition and consolidation.
- Improved occupancy on a square foot basis.

## **SECTION 4: Mission Readiness Assessment Process**

The Office of Science is implementing a Mission Readiness Assessment Process to determine whether the facilities and infrastructure at the ten DOE-SC national laboratories have the necessary capabilities required for the scientific missions assigned to them. This process provides the facility and infrastructure strategic planners with key information focused on capability and reliability requirements for current and anticipated research missions. This Mission Readiness Assessment Process, in concert with the Annual Lab Plans, provide SC management with a clear picture of the mission readiness of each laboratory business line, capability gaps, and the action plan to fill those gaps in the form of needed investments.

Implementation of the Mission Readiness Assessment Process does not diminish the need for maintaining accurate data within FIMS, but shifts the SC focus from maintenance metrics to a system that aligns asset capabilities with the requirements necessary to support cutting-edge research. In the Quarterly Assessments, the Office of Science's management of facilities and infrastructure will now also be judged by how well our infrastructure is able to keep pace with changing research mission needs

### **Milestones**

- **4Q FY11** – Three labs completed peer reviews of their mission readiness during FY 2011 completing reviews of all SC Sites.
- **4Q FY12** – Peer Review Process to be updated and new review schedule developed.

### **Results**

- Mission Readiness gap analysis included in 2011 Annual Lab Plans

## Attachment 1 - FY 2012 to FY 2014 Disposition Plan

Estimated Disposition Year	Program	Site	Property ID	Prop Seq No.	Property Name	Property Type	Primary Dimension	Quantity	RPV
2012	EM	East Tennessee Technology Park	1007 MANHATTAN	202677	1007 OFFICE BUILDING	B	SQFT	106,840	\$15,075,815
2012	EM	East Tennessee Technology Park	1225 JMM	202678	1225 OFFICE BUILDING	B	SQFT	30,720	\$4,285,142
2012	EM	East Tennessee Technology Park	1330 JMM	202679	1330 OFFICE BUILDING	B	SQFT	14,400	\$2,008,661
2012	EM	East Tennessee Technology Park	1580 JMM	202680	1580 OFFICE BUILDING	B	SQFT	38,211	\$5,391,819
2012	EM	Energy Tech Eng Ctr 700	024 - IO700017	207309	Development Test Lab	B	SQFT	14,147	\$2,635,827
2012	EM	Energy Tech Eng Ctr 700	029 - IO700022	90395	Sodium Waste Storage	B	SQFT	800	\$390,004
2012	EM	Energy Tech Eng Ctr 700	133 - IO700451	90407	Hazardous Waste Trtmt Fac	B	SQFT	441	\$197,634
2012	EM	Energy Tech Eng Ctr 700	462 - IO700316	90422	Sodium Pump Test Facility	B	SQFT	10,274	\$4,604,295
2012	EM	Energy Tech Eng Ctr 700	463 - IO700323	90423	Cleaning And Handling Fac	B	SQFT	6,635	\$2,051,173
2012	EM	Energy Tech Eng Ctr 700	IO705000	207321	SPTF Fencing	S	FEET	427	\$7,290
2012	EM	Idaho National Lab-Scoville	CPP-TR-64	204021	D&D Crafts Trailer	T	SQFT	1,423	\$398,243
2012	EM	Idaho National Lab-Scoville	CPP-TR-67	144695	IWTU Document Control Trailer	T	SQFT	1,525	\$426,788
2012	EM	Idaho National Lab-Scoville	MFC-750A	124736	Experimental Equip Bldg	B	SQFT	199	\$24,996
2012	EM	Idaho National Lab-Scoville	MFC-767	124742	EBR-II Reactor Plant Building	B	SQFT	18,967	\$31,867,756
2012	EM	Idaho National Lab-Scoville	MFC-793A	124722	Alcohol Storage Pad & Tanks	S	EACH	1	\$1,944,696
2012	EM	Idaho National Lab-Scoville	MFC-793B	204421	SCSM Alcohol Recovery Annex	B	SQFT	576	\$213,532
2012	EM	Idaho National Lab-Scoville	MFC-TR-1718	203786	D&D Trailer	T	SQFT	1,423	\$398,243
2012	EM	Idaho National Lab-Scoville	TAN-TR-23	144691	TAN Landfill Trailer	T	SQFT	332	\$92,914
2012	EM	Idaho National Lab-Scoville	TAN-TR-27	144696	TSF ICP Support Facility I (West)	T	SQFT	1,525	\$426,788
2012	EM	Idaho National Lab-Scoville	TAN-TR-28	144697	TSF ICP Support Facility II (East)	T	SQFT	3,369	\$942,853
2012	EM	Idaho National Lab-Scoville	TRA-1601	202582	D&D Radcon Office	T	SQFT	1,423	\$398,243
2012	EM	Idaho National Lab-Scoville	TRA-1602	202583	D&D Engineering Office Building	T	SQFT	3,696	\$1,034,367
2012	EM	Idaho National Lab-Scoville	TRA-1603	202584	D&D Craft Office /Breakroom	T	SQFT	1,423	\$398,243
2012	EM	Idaho National Lab-Scoville	TRA-1604	202585	D&D Project Mgmt Office	T	SQFT	3,696	\$1,034,367
2012	EM	Idaho National Lab-Scoville	TRA-1607	203635	D&D Craft Trailer #2	T	SQFT	1,423	\$398,243
2012	EM	Idaho National Lab-Scoville	TRA-603	96096	Material Test Reactor Bldg.	B	SQFT	44,724	\$24,034,937
2012	EM	Idaho National Lab-Scoville	TRA-632	96093	Hot Cell Building	B	SQFT	11,862	\$14,224,321
2012	EM	Idaho National Lab-Scoville	TRA-698	202580	Comfort Station #1	T	SQFT	296	\$82,839
2012	EM	Idaho National Lab-Scoville	TRA-699	202581	Comfort Station #2	T	SQFT	296	\$82,839
2012	EM	Idaho National Lab-Scoville	WMF-711	205084	ASB-II Foundation and Pad (AMWTP)	S	EACH	1	\$200,000
2012	EM	Mound	2	84195	Destructive Test Fire	B	SQFT	6,291	\$2,636,250
2012	EM	Mound	3	84205	Environmental Test Fire	B	SQFT	12,391	\$2,318,326
2012	EM	Mound	28	84203	Ceramic Production	B	SQFT	11,329	\$2,997,700
2012	EM	Mound	45	84227	Neutron Standards	B	SQFT	2,775	\$1,162,866
2012	EM	Mound	61	84247	Building 61	B	SQFT	45,490	\$4,078,408
2012	EM	Mound	63	84250	Surveillance Facility	B	SQFT	3,050	\$1,278,105
2012	EM	Mound	80	84287	Magazine 80	B	SQFT	314	\$206,354
2012	EM	Mound	81	125784	Magazine 81	B	SQFT	314	\$206,354
2012	EM	Mound	82	125785	Magazine 82	B	SQFT	314	\$206,354

## Attachment 1 - FY 2012 to FY 2014 Disposition Plan

Estimated Disposition Year	Program	Site	Property ID	Prop Seq No.	Property Name	Property Type	Primary Dimension	Quantity	RPV
2012	EM	Mound	83	125786	Magazine 83	B	SQFT	314	\$206,354
2012	EM	Mound	84	125787	Magazine 84	B	SQFT	314	\$206,354
2012	EM	Mound	87	84231	Component Test Facility	B	SQFT	38,883	\$10,288,603
2012	EM	Mound	102	84183	Process Support Facility	B	SQFT	10,982	\$1,731,277
2012	EM	Mound	300	133841	Building 300	B	SQFT	270	\$35,744
2012	EM	Mound	301	133842	Building 301	B	SQFT	302	\$39,981
2012	EM	Mound	301-A	133843	Building 301-A	B	SQFT	26	\$3,442
2012	EM	Mound	63 ADDITION	84251	Tester / Electronics Facility	B	SQFT	13,500	\$4,096,472
2012	EM	Mound	COS	84235	Central Operational Support	B	SQFT	53,706	\$8,466,576
2012	EM	Mound	MND01-126	140191	Mound, OH, Site Building	B	SQFT	14,078	\$2,470,109
2012	EM	Mound	OSE	84331	Operational Support East	B	SQFT	90,072	\$14,364,076
2012	EM	Mound	OSW	84330	Operational Support West	B	SQFT	54,280	\$8,557,066
2012	EM	Mound	SST	125788	Salt Storage Shed	B	SQFT	590	\$52,896
2012	EM	Mound	T	84338	Radioactive Materials	B	SQFT	172,963	\$80,600,758
2012	EM	Oak Ridge National Laboratory (X-10)	3038	97214	Radioisotope Laboratory	B	SQFT	7,773	\$1,825,690
2012	EM	Oak Ridge National Laboratory (X-10)	3026C	97201	Radioisotope Development Laboratory-B	B	SQFT	8,279	\$6,289,986
2012	EM	Oak Ridge National Laboratory (X-10)	3026D	97202	Dismantling & Examination Hot Cells	B	SQFT	11,563	\$8,785,011
2012	EM	Paducah Gaseous	C-340	99427	Metal Plant	B	SQFT	22,400	\$6,751,946
2012	EM	Paducah Gaseous	C-340-A	134352	Powder Building	B	SQFT	25,200	\$10,445,258
2012	EM	Paducah Gaseous	C-340-B	134353	Metals Building	B	SQFT	21,360	\$8,853,600
2012	EM	Paducah Gaseous	C-340-C	134354	Slag Building	B	SQFT	4,200	\$1,740,876
2012	EM	Paducah Gaseous	C-410	99436	Feed Plant	B	SQFT	82,765	\$21,754,447
2012	EM	Paducah Gaseous	C-410-C	99437	HF Neutralization	B	SQFT	1,088	\$96,897
2012	EM	Paducah Gaseous	C-410-C PIT	99199	Concrete Pit	S	CFT	450	\$301,648
2012	EM	Paducah Gaseous	C-410-EXP	99365	Feed Plant Expansion	B	SQFT	55,228	\$14,516,457
2012	EM	Paducah Gaseous	C-420	99440	Greensalt Plant	B	SQFT	51,778	\$13,609,639
2012	EM	Paducah Gaseous	C-747-T07	138205	Trailer, H3 Pad Office	T	SQFT	336	\$66,672
2012	EM	Richland Operations Office	308	117215	Fuels Development Laboratory	B	SQFT	61,796	\$5,920,722
2012	EM	Richland Operations Office	312	139964	RIVER PUMP HOUSE	S	GPM	10,000	\$865,038
2012	EM	Richland Operations Office	351	140758	SUBSTATION 115kV	S	KVA	115	\$87,020
2012	EM	Richland Operations Office	382	117240	Pump House Building	B	SQFT	1,248	\$1,035,188
2012	EM	Richland Operations Office	613	117658	Storage Shelter Near 609 Bldg.	B	SQFT	800	\$76,649
2012	EM	Richland Operations Office	3730	117351	Gamma Irradiation Fac	B	SQFT	3,103	\$1,464,264
2012	EM	Richland Operations Office	3766	117381	Office Building	B	SQFT	2,820	\$475,088
2012	EM	Richland Operations Office	4706	117489	Office Building	B	SQFT	19,024	\$3,204,988
2012	EM	Richland Operations Office	105KE	115819	Reactor Facility	B	SQFT	58,675	\$5,621,696
Sub-Total	FY 2012 Disposition Plan						SQFT	1,303,624	\$375,272,069
2012	EM	Richland Operations Office	183.2KE	135976	BASINS/SEDIMENTATION	S	GAL	45,208,452	\$23,136,141
2012	EM	Richland Operations Office		140650	BASIN/FILTERS	S	GAL	3,408,805	\$20,561,119

## Attachment 1 - FY 2012 to FY 2014 Disposition Plan

Estimated Disposition Year	Program	Site	Property ID	Prop Seq No.	Property Name	Property Type	Primary Dimension	Quantity	RPV
2012	EM	Richland Operations Office	183.4KE	140652	RESERVOIR AND CLEARWELLS	S	GAL	22,517,112	\$10,758,651
2012	EM	Richland Operations Office	1908N	140659	OUTFALL STRUCTURE	S	EACH	1	\$15,571,637
2013	EM	East Tennessee Technology Park	806	98084	MCKINNEY RIDGE SITE RADIO REPTR STN	B	SQFT	255	\$43,733
2013	EM	East Tennessee Technology Park	814	98089	RADIO REPEATER - MCKINNEY RIDGE SITE	B	SQFT	180	\$30,870
2013	EM	Energy Tech Eng Ctr 700	019 - IO700014	90390	Snap Flight Test Facility	B	SQFT	6,402	\$2,269,638
2013	EM	Energy Tech Eng Ctr 700	038 - IO700030	90399	Etec Admin Headquarters	B	SQFT	15,297	\$2,817,449
2013	EM	Energy Tech Eng Ctr 700	057 - IO700035	90402	Etec General Test	B	SQFT	7,210	\$3,231,163
2013	EM	Lawrence Livermore National Laboratory	406	89863	VACANT	B	SQFT	345	\$173,102
2013	EM	Lawrence Livermore National Laboratory	2552	90046	VACANT	T	SQFT	2,100	\$634,271
2013	EM	Lawrence Livermore National Laboratory	4316	89892	VACANT	T	SQFT	299	\$104,774
2013	EM	Lawrence Livermore National Laboratory	4383	89902	VACANT	T	SQFT	4,988	\$1,254,537
2013	EM	Lawrence Livermore National Laboratory	4384	89903	VACANT	T	SQFT	1,577	\$476,308
2013	EM	Lawrence Livermore National Laboratory	4387	89906	VACANT	T	SQFT	3,658	\$920,027
2013	EM	Lawrence Livermore National Laboratory	4388	89907	VACANT	T	SQFT	320	\$137,008
2013	EM	Lawrence Livermore National Laboratory	5426	89977	VACANT	T	SQFT	5,180	\$1,184,490
2013	EM	Lawrence Livermore National Laboratory	6325	90032	VACANT	T	SQFT	4,320	\$1,086,527
2013	EM	Lawrence Livermore National Laboratory	514A	89957	VACANT	B	SQFT	2,473	\$778,911
2013	EM	Oak Ridge National Laboratory (X-10)	2032	97563	Manhole 240 Monitoring Station 1	S	EACH	1	\$295,342
2013	EM	Oak Ridge National Laboratory (X-10)	2099	133300	Monitoring Control Station for Bldg 2026	S	GAL	1,900	\$26,858,605
2013	EM	Oak Ridge National Laboratory (X-10)	3020	97436	Cv & Og Exh. Stack-3020	S	EACH	1	\$33,328
2013	EM	Oak Ridge National Laboratory (X-10)	3030	97206	Radioisotope Production Lab-C	B	SQFT	823	\$193,303
2013	EM	Oak Ridge National Laboratory (X-10)	3126	97313	Charcoal Filt (Nog) Orr	S	EACH	1	\$26,914
2013	EM	Oak Ridge National Laboratory (X-10)	3542	97265	Storage Building For 3505 & 3517	B	SQFT	613	\$48,784
2013	EM	Oak Ridge National Laboratory (X-10)	3597	97285	Hot Storage Garden	S	CFT	642	\$197,374
2013	EM	Oak Ridge National Laboratory (X-10)	3613	97565	Diverson Box Monitoring Station 3	S	EACH	1	\$751,832
2013	EM	Oak Ridge National Laboratory (X-10)	3614	97566	Manhole 190 Monitoring Station 4	S	EACH	1	\$457,547
2013	EM	Oak Ridge National Laboratory (X-10)	3615	97567	Manhole 235 Monitoring Station 5	S	EACH	1	\$295,342
2013	EM	Oak Ridge National Laboratory (X-10)	3616	97562	Manhole 149 Monitoring Station 6	S	EACH	1	\$295,342
2013	EM	Oak Ridge National Laboratory (X-10)	3617	97561	Manhole 229 Monitoring Station 7	S	EACH	1	\$295,342
2013	EM	Oak Ridge National Laboratory (X-10)	3618	129083	WC-10 Tank Farm Pumping Station	S	EACH	1	\$64,201
2013	EM	Oak Ridge National Laboratory (X-10)	3502B	129079	Data Concentrator 4 WOCC DAS 3502	B	SQFT	186	\$17,033
2013	EM	Richland Operations Office	309	117284	Sp-100 Ges Test Facility	B	SQFT	43,025	\$17,636,780
2013	EM	Richland Operations Office	340	117227	Waste Storage Facility	B	SQFT	3,494	\$988,005
2013	EM	Richland Operations Office	4221	140787	HLAN FIBER HUB	S	EACH	1	\$71,120
2013	EM	Richland Operations Office	4802	117508	Construction Support Building	B	SQFT	1,416	\$238,555
2013	EM	Richland Operations Office	142K	137729	Cold Vacuum Drying Facility	B	SQFT	18,917	\$5,349,195
2013	EM	Richland Operations Office	151D	115707	Primary Substation	B	SQFT	4,320	\$1,221,574
2013	EM	Richland Operations Office	1908K	141010	OUTFALL STRUCTURE	S	EACH	1	\$1,617,439
2013	EM	Richland Operations Office	190KW	137730	PROCESS WATER PUMPHOUSE	B	SQFT	52,416	\$43,477,880

## Attachment 1 - FY 2012 to FY 2014 Disposition Plan

Estimated Disposition Year	Program	Site	Property ID	Prop Seq No.	Property Name	Property Type	Primary Dimension	Quantity	RPV
2013	EM	Richland Operations Office	2715ZL	208746	Oil Storage Building	B	SQFT	192	\$18,396
2013	EM	Richland Operations Office	MO059	117431	Mobile Office	T	SQFT	1,584	\$338,138
2013	EM	Savannah River Site	261000	202927	HAZARDOUS WASTE INCINERATOR	S	EACH	1	\$137,801,819
2013	EM	Savannah River Site	601000	115194	Railroads	S	MILES	1	\$1,025,198
2013	LM	Pinellas County, FL, Site	PIN-OSFS-	140288	Air Stripper 2	S	EACH	1	\$120,981
2013	NE	Idaho National Lab-Idaho Falls R E C	B60-1006	207579	Ammon Park-&-Ride (Calvery Chapel)	S	SQYD	7,082	\$421,833
2013	NE	Idaho National Lab-Idaho Falls R E C	IF-670-G	207580	Bon. County Technology Cntr Bay # 4	B	SQFT	2,094	\$1,092,893
2013	NE	Idaho National Lab-Scoville	CF-689	95130	Technical Center	B	SQFT	26,795	\$5,918,100
2013	NNSA	Lawrence Livermore National Laboratory	216	89676	CYBER SECURITY	B	SQFT	18,976	\$6,778,554
2013	NNSA	Lawrence Livermore National Laboratory	217	89677	VACANT	B	SQFT	17,999	\$6,237,559
2013	NNSA	Lawrence Livermore National Laboratory	218	89680	VACANT	B	SQFT	17,956	\$4,899,338
2013	NNSA	Lawrence Livermore National Laboratory	219	89682	IMF MANAGED OFFICE FACILITY	B	SQFT	18,429	\$4,998,057
2013	NNSA	Lawrence Livermore National Laboratory	4302	89890	ERD OFFICES	T	SQFT	5,022	\$1,148,361
2013	NNSA	Lawrence Livermore National Laboratory	4377	89899	ERD OFFICES	T	SQFT	4,920	\$1,237,434
2013	NNSA	Lawrence Livermore National Laboratory	4378	89900	ERD OFFICES	T	SQFT	5,180	\$1,184,490
2013	NNSA	Lawrence Livermore National Laboratory	5425	89976	VACANT	T	SQFT	5,260	\$1,202,784
2013	NNSA	Los Alamos National Laboratory	21-0257	85151	Rad Liq Wste Dispo	B	SQFT	4,227	\$2,957,209
2013	NNSA	Los Alamos National Laboratory	21-0258	204061	TANKS, PRESSURE (Potable)	S	GAL	100,000	\$616,193
2013	NNSA	Los Alamos National Laboratory	21-0342	204118	TANKS, PRESSURE (Potable)	S	GAL	100,000	\$703,648
2013	NNSA	Los Alamos National Laboratory	21-8000	85113	Trailer Po 9288z	T	SQFT	1,440	\$380,896
2013	NNSA	Los Alamos National Laboratory	21-8001	128940	Trailer PO 8797R	T	SQFT	1,442	\$381,425
2013	NNSA	Los Alamos National Laboratory	54-0008	85876	Contaminated Drum Strg	B	SQFT	651	\$130,496
2013	NNSA	Los Alamos National Laboratory	54-0020	85879	Equipment Shelter Bldg	B	SQFT	680	\$552,810
2013	NNSA	Los Alamos National Laboratory	54-0033	85883	Tru-Waste Drum Prep	B	SQFT	8,325	\$1,668,779
2013	NNSA	Los Alamos National Laboratory	54-0049	85889	Tension Support Dome	B	SQFT	25,041	\$5,019,568
Sub-Total	FY 2013 Disposition Plan						SQFT	346,027	\$302,408,599
2014	EM	East Tennessee Technology Park	131	97758	MAINTENANCE SHOP	B	SQFT	44,931	\$12,063,723
2014	EM	East Tennessee Technology Park	631	143020	Tails Process Building	B	SQFT	39,040	\$9,140,406
2014	EM	East Tennessee Technology Park	633	143021	Demonstration Facility	B	SQFT	19,021	\$4,453,372
2014	EM	East Tennessee Technology Park	731	134156	K-27 & K-29 SWITCH HOUSE	B	SQFT	69,330	\$5,499,902
2014	EM	East Tennessee Technology Park	732	134614	K-27 & K-29 SWITCH YARD	S	EACH	1	\$58,185,239
2014	EM	East Tennessee Technology Park	832	98091	RECIRCULATING WATER PUMP HOUSE	B	SQFT	11,097	\$880,317
2014	EM	East Tennessee Technology Park	1203	140319	WASTE WATER TREATMENT PLANT	S	GPD	250,000	\$14,502,266
2014	EM	East Tennessee Technology Park	1232	131000	WSU K-1232 - CHEMICAL RECOVERY FAC.	B	SQFT	9,250	\$2,165,696
2014	EM	East Tennessee Technology Park	1203-02	136157	EMERGENCY HOLDING BASIN	S	GPD	100	\$3,139,806
2014	EM	East Tennessee Technology Park	1203-04	97748	CHLORINATION CONTROL RM	B	SQFT	264	\$20,943
2014	EM	East Tennessee Technology Park	1203-05	136158	EAST SLUDGE DRYING BED	S	GPD	1,000	\$305,882
2014	EM	East Tennessee Technology Park	1203-06	136159	WEST SLUDGE DRYING BED	S	GPD	1,000	\$305,882
2014	EM	East Tennessee Technology Park	1203-08	136160	CHLORINE CONTACT TANK	S	GAL	500	\$152,941

## Attachment 1 - FY 2012 to FY 2014 Disposition Plan

Estimated Disposition Year	Program	Site	Property ID	Prop Seq No.	Property Name	Property Type	Primary Dimension	Quantity	RPV
2014	EM	East Tennessee Technology Park	1203-10	136161	HIGH WATER LIFT STATION	S	GPD	1,000	\$152,941
2014	EM	East Tennessee Technology Park	1203-11	136181	AIR BLOWER STATION	S	EACH	1	\$1,147,059
2014	EM	East Tennessee Technology Park	1203-12	136182	WASTE WATER LIFT STATION	S	GPM	1,000	\$1,376,470
2014	EM	East Tennessee Technology Park	1203-13	136184	EFFLUENT MONITORING STATION	S	GPD	1,000	\$152,941
2014	EM	East Tennessee Technology Park	1203-14	136186	COMMUNUTOR	S	GPD	1,000	\$688,236
2014	EM	East Tennessee Technology Park	1203-16	136187	WASTE WATER PLANT BACKFLOW	S	GPD	1,500	\$152,941
2014	EM	East Tennessee Technology Park	1204-02	136189	SEWAGE LIFT STATION, E-309-3	S	GPM	1,000	\$146,594
2014	EM	East Tennessee Technology Park	1204-11	136198	SEWAGE LIFT STATION, S 1420	S	GPM	1,000	\$50,348
2014	EM	East Tennessee Technology Park	1204-12	136200	SEWAGE LIFT STATION	S	GPM	1,000	\$20,556
2014	EM	East Tennessee Technology Park	1204-14	136202	SEWAGE LIFT STATION	S	GPM	1,000	\$20,556
2014	EM	East Tennessee Technology Park	1232-J	136404	LIME STORAGE SILO WEST OF 1232	S	EACH	1	\$229,412
2014	EM	East Tennessee Technology Park	733-A	98004	OIL FILTER AND HANDLING	B	SQFT	225	\$52,679
2014	EM	East Tennessee Technology Park	733-C	142144	K-733-C Oil Tank	S	GAL	1,000	\$224,885
2014	EM	East Tennessee Technology Park	733-CB	136324	TEMP OIL STORAGE TANK (19,140 GAL)	S	GAL	19,140	\$224,885
2014	EM	East Tennessee Technology Park	733-D	98003	WEST SPRINKLER VALVE HOUSE	B	SQFT	350	\$27,765
2014	EM	East Tennessee Technology Park	733-E	98002	EAST SPRINKLER VALVE HOUSE	B	SQFT	225	\$17,849
2014	EM	East Tennessee Technology Park	733-F	136325	VAULT FIREWATER CROSS TO RCW	S	GPM	1,000	\$101,289
2014	EM	East Tennessee Technology Park	733-G	128253	TEMP OIL STORAGE TANK	S	GAL	11,744	\$58,638
2014	EM	East Tennessee Technology Park	733-H	128254	TEMP OIL STORAGE TANK	S	GAL	11,744	\$58,636
2014	EM	East Tennessee Technology Park	733-J	136389	STORAGE SHED	B	SQFT	200	\$15,866
2014	EM	East Tennessee Technology Park	832-B	131090	SPRINKLER VALVE HOUSE	S	EACH	1	\$30,588
2014	EM	East Tennessee Technology Park	832-H	98035	COOLING TOWER (PARTIAL)	S	TONS	22,500	\$8,143,533
2014	EM	East Tennessee Technology Park	832-S	136335	ACID TANK	S	GAL	15,000	\$764,706
2014	EM	Energy Tech Eng Ctr 700	721140288	90440	Commun Sys Lines	S	FEET	4	\$205,193
2014	EM	Energy Tech Eng Ctr 700	761140289	90441	Paved Roads	S	MILES	2	\$573,990
2014	EM	Energy Tech Eng Ctr 700	802140290	90442	Fencing	S	FEET	9	\$28,133
2014	EM	Energy Tech Eng Ctr 700	806140292	90443	Monitoring Systems	S	EACH	2	\$49,585
2014	EM	Energy Tech Eng Ctr 700	811140293	90444	Site Preparatn- Landscapin	S	EACH	99	\$150,623
2014	EM	Energy Tech Eng Ctr 700	6700000000	90433	Process Systems	S	EACH	1	\$559
2014	EM	Energy Tech Eng Ctr 700	7111140280	90434	Elec. Systems	S	KVA	18,000	\$867,600
2014	EM	Energy Tech Eng Ctr 700	7131140283	90436	Water Distribution Sys.	S	FEET	5,135	\$278,522
2014	EM	Energy Tech Eng Ctr 700	7142140284	90437	Nat Gas Distr Lines	S	FEET	2,720	\$51,544
2014	EM	Energy Tech Eng Ctr 700	7154140285	90438	Sewage System Gravity	S	FEET	940	\$26,701
2014	EM	Energy Tech Eng Ctr 700	7154140286	90439	Storm Water Drainage Sys	S	FEET	2,442	\$19,673
2014	EM	Energy Tech Eng Ctr 700	021 - IO700115	207315	R/A Waste Decontamination	B	SQFT	3,025	\$316,858
2014	EM	Energy Tech Eng Ctr 700	022 - IO700016	207311	R/A Vault Storage	B	SQFT	4,093	\$1,390,317
2014	EM	Energy Tech Eng Ctr 700	034 - IO700026	207307	RMHF Office Bldg	B	SQFT	653	\$120,272
2014	EM	Energy Tech Eng Ctr 700	044 - IO700273	207310	RMHF HP Office	B	SQFT	800	\$147,346
2014	EM	Energy Tech Eng Ctr 700	075 - IO700294	207312	Contaminated Equip Storage	B	SQFT	2,207	\$231,175

## Attachment 1 - FY 2012 to FY 2014 Disposition Plan

Estimated Disposition Year	Program	Site	Property ID	Prop Seq No.	Property Name	Property Type	Primary Dimension	Quantity	RPV
2014	EM	Energy Tech Eng Ctr 700	621 - IO700217	207316	R/A Accountable Waste Storage Bldg	B	SQFT	640	\$67,038
2014	EM	Energy Tech Eng Ctr 700	665 - IO700213	207317	RMHF Storage Bldg	B	SQFT	480	\$69,018
2014	EM	Energy Tech Eng Ctr 700	688 - IO700058	207318	Auxiliary Skid Bldg	B	SQFT	600	\$86,272
2014	EM	Lawrence Livermore National Laboratory	280	89752	VACANT	B	SQFT	5,341	\$3,785,936
2014	EM	Oak Ridge National Laboratory (X-10)	3029	97205	Radioisotope Production Lab-B	B	SQFT	3,122	\$733,282
2014	EM	Oak Ridge National Laboratory (X-10)	3031	97207	Radioisotope Production Lab-D	B	SQFT	823	\$193,303
2014	EM	Oak Ridge National Laboratory (X-10)	3032	97208	Radioisotope Production Lab-E	B	SQFT	833	\$195,652
2014	EM	Oak Ridge National Laboratory (X-10)	3033	97209	Radioisotope Production Lab-F	B	SQFT	832	\$195,417
2014	EM	Oak Ridge National Laboratory (X-10)	3093	97223	Storage Cubical for Krypton	B	SQFT	150	\$11,937
2014	EM	Oak Ridge National Laboratory (X-10)	3099	97282	Storage Pad for Buildings 3031 and 3032	S	SQYD	700	\$179,430
2014	EM	Oak Ridge National Laboratory (X-10)	3118	97237	Radioisotope Prod Lab-H	B	SQFT	950	\$75,603
2014	EM	Oak Ridge National Laboratory (X-10)	7602	97461	Integrated Process Demonstration Facilit	B	SQFT	10,240	\$3,808,978
2014	EM	Oak Ridge National Laboratory (X-10)	3033A	97210	Radioisotope Prod Lab Annex	B	SQFT	1,008	\$236,755
2014	EM	Paducah Gaseous	C-410-E	99197	Acid Neut Pond	S	CFT	12,232	\$167,053
2014	EM	Paducah Gaseous	C-410-PL	99255	C-410 Parking Lot	S	SQYD	245	\$11,934
2014	EM	Paducah Gaseous	C-410-SUB	143354	C-410 Substation	S	KVA	1,500	\$603,510
2014	EM	Paducah Gaseous	C-415	99439	Feed Plant Storage	B	SQFT	3,672	\$327,026
2014	EM	Paducah Gaseous	C-720-N	99490	Railroad Scale House	B	SQFT	192	\$17,099
2014	EM	Paducah Gaseous	C-746-A	99513	North Warehouse	B	SQFT	42,000	\$3,740,492
2014	EM	Paducah Gaseous	C-746-B	99514	South Warehouse	B	SQFT	71,100	\$6,332,118
2014	EM	Paducah Gaseous	C-746-M	99516	Waste Askarel Storage	B	SQFT	560	\$49,873
2014	EM	Richland Operations Office	324	117219	Waste Tech Engineering Lab	B	SQFT	107,583	\$44,100,352
2014	EM	Richland Operations Office	3760	117297	3760 Office Building	B	SQFT	21,908	\$3,978,029
2014	EM	Richland Operations Office	324A	136044	Stack Sampling Bldg	B	SQFT	198	\$55,989
2014	EM	Richland Operations Office	324D	136045	Stack Sampling Bld	B	SQFT	516	\$145,910
2014	EM	Richland Operations Office	MO015	117012	Mobile Office @ 234-5Z	T	SQFT	672	\$143,452
2014	EM	Richland Operations Office	MO016	117013	Mobile Office @ 234-5Z	T	SQFT	672	\$143,452
2014	EM	Richland Operations Office	MO017	117014	Mobile Office @ 234-5Z	T	SQFT	672	\$143,452
2014	EM	Richland Operations Office	MO031	117003	Mobile Office @ 234-5Z	T	SQFT	2,772	\$591,742
2014	EM	Richland Operations Office	MO032	117004	Mobile Office @ 234-5Z	T	SQFT	2,772	\$591,742
2014	EM	Richland Operations Office	MO229	115877	Mobile Office N of 105H	T	SQFT	3,456	\$737,756
2014	EM	Richland Operations Office	MO249	117053	Mobile Office @ 234-5Z	T	SQFT	1,848	\$394,494
2014	EM	Richland Operations Office	MO250	117031	Mobile Office @ 234-5Z	T	SQFT	1,848	\$394,494
2014	EM	Richland Operations Office	MO273	141589	Mobile Office @ PFP	T	SQFT	9,240	\$1,972,472
2014	EM	Richland Operations Office	MO889	137827	Mobile Field Trailer NW of 190DR	T	SQFT	160	\$34,155
2014	EM	Richland Operations Office	MO929	137828	Mobile Office NW of 105DR	T	SQFT	160	\$34,155
2014	EM	Richland Operations Office	MO980	137829	Mobile Office NW of 105DR	T	SQFT	1,690	\$360,766
2014	EM	Savannah River Site	189000	202892	COAL STORAGE RUN-OFF CONT BASIN	S	EACH	1	\$458,983
2014	NE	Idaho National Lab-Scoville	MFC-713	124692	Modular Office Bldg T-13	T	SQFT	10,725	\$3,001,512

## Attachment 1 - FY 2012 to FY 2014 Disposition Plan

Estimated Disposition Year	Program	Site	Property ID	Prop Seq No.	Property Name	Property Type	Primary Dimension	Quantity	RPV
2014	NE	Idaho National Lab-Scoville	MFC-716	124699	Modular Office Bldg. T-16a	T	SQFT	1,660	\$464,570
2014	NE	Idaho National Lab-Scoville	MFC-751	124738	Safeguards & Security Support Building	B	SQFT	620	\$136,937
2014	NE	Idaho National Lab-Scoville	MFC-759	124746	Emergency Reentry Building	B	SQFT	2,550	\$612,072
2014	NE	Idaho National Lab-Scoville	MFC-TR-1	202205	Bus Driver Trailer	T	SQFT	624	\$174,633
2014	NNSA	Lawrence Livermore Lab Site 300	865	90581	VACANT	B	SQFT	61,360	\$39,414,249
2014	NNSA	Lawrence Livermore National Laboratory	212	89671	VACANT	B	SQFT	3,770	\$2,967,032
2014	NNSA	Lawrence Livermore National Laboratory	314	89771	DIR.OFF/QA	B	SQFT	13,238	\$4,734,787
2014	NNSA	Lawrence Livermore National Laboratory	315	89772	ESH ENVIRONMENTAL PROT	B	SQFT	18,133	\$6,266,293
2014	NNSA	Lawrence Livermore National Laboratory	316	89774	DIRECTORS OFFICE	B	SQFT	14,090	\$4,944,055
2014	NNSA	Lawrence Livermore National Laboratory	319	89782	IMF MANAGED OFFICE FACILITY	B	SQFT	18,048	\$6,284,899
2014	NNSA	Lawrence Livermore National Laboratory	616	90023	DONATION UTIL&SALES	B	SQFT	2,273	\$750,001
2014	NNSA	Lawrence Livermore National Laboratory	1925	89659	PAT	T	SQFT	2,236	\$657,226
2014	NNSA	Lawrence Livermore National Laboratory	1927	89661	VACANT	T	SQFT	2,160	\$652,393
2014	NNSA	Los Alamos National Laboratory	03-2260	84805	Palm/Badge Reader	T	SQFT	22	\$10,902
2014	NNSA	Los Alamos National Laboratory	03-0460	84613	Transportable	T	SQFT	1,440	\$380,896
2014	NNSA	Los Alamos National Laboratory	03-0461	84614	Transportable	T	SQFT	3,181	\$841,410
2014	NNSA	Los Alamos National Laboratory	03-0462	84615	Transportable	T	SQFT	3,190	\$843,790
2014	NNSA	Los Alamos National Laboratory	03-0467	84617	Transportable	T	SQFT	3,166	\$837,442
2014	NNSA	Los Alamos National Laboratory	03-0469	84619	Transportable	T	SQFT	3,187	\$842,997
2014	NNSA	Los Alamos National Laboratory	03-0471	84621	Transportable	T	SQFT	3,389	\$896,428
2014	NNSA	Los Alamos National Laboratory	03-0472	84622	Transportable	T	SQFT	3,391	\$896,957
2014	NNSA	Los Alamos National Laboratory	03-0473	84623	Transportable	T	SQFT	3,395	\$898,015
2014	NNSA	Los Alamos National Laboratory	03-0545	84650	Trailer	T	SQFT	617	\$163,203
2014	NNSA	Los Alamos National Laboratory	03-0546	84651	Trailer	T	SQFT	624	\$165,055
2014	NNSA	Los Alamos National Laboratory	03-1572	84698	Trailer	T	SQFT	2,016	\$533,254
2014	NNSA	Los Alamos National Laboratory	03-1578	84702	Trailer	T	SQFT	758	\$200,499
2014	NNSA	Los Alamos National Laboratory	03-1596	84708	Trailer	T	SQFT	720	\$190,448
2014	NNSA	Los Alamos National Laboratory	03-1701	84727	Trailer Po 6585h	T	SQFT	720	\$190,448
2014	NNSA	Los Alamos National Laboratory	03-1702	84728	Trailer	T	SQFT	720	\$190,448
2014	NNSA	Los Alamos National Laboratory	03-1762	84749	Trailer	T	SQFT	980	\$259,221
2014	NNSA	Los Alamos National Laboratory	03-1789	84759	OFFICE	T	SQFT	300	\$79,353
2014	NNSA	Los Alamos National Laboratory	03-1887	84767	Transportable	T	SQFT	3,176	\$840,087
2014	NNSA	Los Alamos National Laboratory	03-1888	84768	Transportable	T	SQFT	3,382	\$894,576
2014	NNSA	Los Alamos National Laboratory	03-1898	84769	Trailer	T	SQFT	720	\$190,448
2014	NNSA	Los Alamos National Laboratory	46-0231	85593	Transportable	T	SQFT	1,680	\$444,379
2014	NNSA	Los Alamos National Laboratory	46-0232	85594	Transportable	T	SQFT	1,702	\$450,198
2014	NNSA	Los Alamos National Laboratory	46-0234	85595	Transportable	T	SQFT	1,680	\$444,379
2014	NNSA	Los Alamos National Laboratory	54-0002	85875	Lab Support Fac Area G	B	SQFT	1,617	\$1,131,253
2014	NNSA	Los Alamos National Laboratory	54-0011	85877	Storage Bldg	B	SQFT	1,136	\$444,261

## Attachment 1 - FY 2012 to FY 2014 Disposition Plan

Estimated Disposition Year	Program	Site	Property ID	Prop Seq No.	Property Name	Property Type	Primary Dimension	Quantity	RPV
2014	NNSA	Los Alamos National Laboratory	54-0022	85880	Transportable	T	SQFT	1,680	\$444,379
2014	NNSA	Los Alamos National Laboratory	54-0048	135820	Tension Support Dome	B	SQFT	12,614	\$2,528,526
2014	NNSA	Los Alamos National Laboratory	54-0156	85906	Modified Morgan Shed	T	SQFT	192	\$95,143
2014	NNSA	Los Alamos National Laboratory	54-0229	134863	Tension Support Dome	B	SQFT	20,498	\$4,108,905
2014	NNSA	Los Alamos National Laboratory	54-0230	134862	Tension Support Dome	B	SQFT	19,695	\$3,947,941
2014	NNSA	Los Alamos National Laboratory	54-0231	134864	Tension Support Dome	B	SQFT	21,363	\$4,282,298
Sub-Total	FY 2014 Disposition Plan						SQFT	777,859	\$304,031,159

**Department of Energy  
Three Year Rolling Timeline**



**Attachment 2  
Projects List  
FY 2011 to FY 2013**

**Includes Maintenance and Repair  
Projects Over \$5M**

**FY2011 to FY2013 Real Property Maintenance and Repair Projects \$5M and Over**

**Program - Office of Environmental Management**

Project Information										Funding By FY (\$000)		
Program	Site	Program Priority	Project Name	FIMS Property ID	Project Number	Deferred Maintenance Reduction	GSF Added or Eliminated	Funding Type	Funding Program	FY 2011	FY 2012 <sup>1</sup>	FY 2013 <sup>1</sup>
EM	SRS		Replace 285-H Unit Substations	285000	I&S-2		N/A	OP	EM	\$2,171	\$4,142	
EM	SRS		Feeders - 773-A, Sections B & C (DNFSB 2004-2)	773000	LF0815		N/A	OP	EM		\$2,000	\$2,000
EM	SRS		Rebuild, Repair & Repave Fatigued Sections of Road C	603000	SI-IPL-002		N/A	OP	EM	\$4,000	\$6,000	\$4,000
EM	SRS		703-A Bldg M&R Project	703000	Multiple		N/A	OP	EM	\$627	\$202	\$3,388
EM	SRS		Rebuild, Repair & Repave Fatigued Sections of Road 4	603000	SI-IPL-005		N/A	OP	EM	\$0	\$2,000	\$3,000
EM	SRS		Repair degraded site utility systems (electrical, steam, river water, fire suppression, sanitary waste water treatment)	Multiple	Multiple		N/A	OP	EM	\$9,958	\$13,929	\$14,780
EM	SRS		Repair or replace roofs on site bldgs	Multiple	Multiple		N/A	OP	EM	\$4,741	\$13,119	\$4,985

<sup>1</sup> FY 12 and 13 repair projects are pre-decisional and may change in priority and number based on FY 11 budget decisions.

# FY2011 to FY2013 Real Property Maintenance and Repair Projects \$5M and Over

## Program - Office of Nuclear Security/National Nuclear Security Administration

Project Information									Funding By FY (\$000)			
Program	Site	Program Priority	Project Name	FIMS Property ID	Project Number	Deferred Maintenance Reduction	GSF Added or Eliminated	Funding Type	Funding Program	FY 2011	FY 2012 <sup>1</sup>	FY 2013 <sup>1</sup>
NA	SNL-TTR		Rebuild Brownes & Galvin Roads	T101200	TBD	\$ 5,648		TBD	TBD		\$ 7,500	
NA	SNL-NM		Replace Chillers/Cooling Towers/Pumps, Bldg 850	850	TBD	\$ 5,816		TBD	TBD	\$ 7,873		
NA	SNL-NM		Replace Cooling Towers/Pumps, Bldg 890 & 894	890 & 894	TBD	\$ 4,128		TBD	TBD	\$ 5,160		
NA	SNL-NM		Repair Roofs TA-I & IV Bldgs	Multiple	TBD	\$ 6,929		TBD	TBD	\$ 7,795		
NA	SNL-NM		Repair TA-I Water Mains & Service Laterals	WATER-NM	TBD	\$ 6,220		TBD	TBD	\$ 5,912		
NA	SNL-NM		Repair CTF Water Distribution System	WATER-NM	TBD	\$ 3,523		TBD	TBD			\$ 5,000
NA	SNL/CA		Sewer Line Replacement			\$ 2,000		TBD	TBD		\$ 5,110	
NA	SNL-NM		Building 860 1st floor Renovation	860	TBD	\$ 2,250		TBD	TBD			\$ 7,500
NA	SNL-NM		Stand-by Generator Plant Upgrade	862	TBD	\$ 2,550		TBD	TBD		\$ 1,650	\$ 6,850
NA	SNL-NM		Annular Core Research Reactor Facility Refurbishments	6588	TBD	\$ 2,250		TBD	TBD		\$ 4,500	\$ 3,000
NA	LANL	1	Fire System Modernization (Replace obsolete Autocalls)	Various	TBD	TBD	N/A	Expense	TBD	\$10,000	\$10,000	
NA	LANL	2	Low Voltage Electrical & Test and Maintenance	Various	TBD	\$5,529	N/A	Expense	TBD	\$5,000	\$5,000	
NA	LANL	3	Elevator Modernization (address high maintenance units by replacement/upgrade)	Various	TBD	TBD	N/A	Expense	TBD	\$5,000	\$5,000	
NA	LANL	4	Crane Modernization (address high maintenance units by replacement/upgrade to include documentation)	Various	TBD	TBD	N/A	Expense	TBD	\$5,000	\$5,000	
NA	LANL	5	Direct Digital Control Replacements	Various	TBD	TBD	N/A	Expense	TBD	\$5,000	\$5,000	
NA	LANL	6	Pneumatic Upgrade to DDC	Various	TBD	TBD	N/A	Expense	TBD	\$5,000	\$5,000	
NA	LANL	7	TA-55 13.2 kVA Breaker Replacement Replace 13.2 kVA breaker in TA-55 <sup>2</sup>	Various	TBD	\$4,221	N/A	Expense	TBD	\$4,000		
NA	LANL	8	Repave Roads and Parking Lots within LANL Boundaries	Various	TBD	TBD	N/A	Expense	TBD	\$6,000		
NA	NNSS	1	Area 23 Miscellaneous External Repairs	Various	NV-DNM-NTS4	\$3,039	N/A	TBD	TBD		\$5,000	

<sup>1</sup> FY 12 and 13 projects are pre-decisional and may change in priority and number based on FY 11 budget decisions.

### Attachment 3 - DOE Green Buildings - As of September 12, 2011

PRGM	Site	Property ID	Name	Ownership	GSF	GP Pts EB	GP Pts NC	LEED Cert EB	LEED Cert NC	LEED CERT Received NC
EE	National Renewable Energy Laboratory - Cole Blvd	12600	Golden Hill	C	26,926	100		Silver		
EE	Natl. Renewable Energy Lab. - South Table Mountain	3507	Research Support Facility	O	218,714		100		Platinum	Certification Received
EE	Natl. Renewable Energy Lab. - South Table Mountain	4015	Science & Technology Facility	O	71,347		100		Platinum	Certification Received
FE	Morgantown Office	MBOO0039	Building 39	O	106,522		100		Gold	Certification Received
LM	Fernald, OH, Site	FER-BLDG-VISITORCNTR	Visitor Center Building	O	10,800		100		Platinum	Certification Received
NE	Idaho National Lab-Idaho Falls R E C	IF-665	Center for Advanced Energy Studies CAES	C	38,611		100		Gold	Certification Received
NE	Idaho National Lab-Idaho Falls R E C	IF-683	Radiological & Envir Sciences Lab (RESL)	O	13,125		100			Certification Pending
NE	Idaho National Lab-Scoville	TRA-1608	ATR Technical Support Building	O	16,592		100		Certified	Certification Received
NNSA	Las Vegas	2164391	B-03	O	78,120		100		Silver	Certification Received
NNSA	Lawrence Livermore National Laboratory	142	PAT	O	20,306	100		Silver		
NNSA	Lawrence Livermore National Laboratory	264	ESH OFFICES	O	20,461	100		Certified		
NNSA	Lawrence Livermore National Laboratory	451	COMPUTATION FACILITY BLDG	O	51,398	100		Silver		
NNSA	Lawrence Livermore National Laboratory	453	TERA SCALE FACILITY	O	240,598	100		Gold		
NNSA	Nevada National Security Site	B110473	23-640	O	27,510		100		Gold	Certification Received
NNSA	Nevada National Security Site	B110495	06-950	O	13,644		100		Gold	Certification Received
NNSA	Pantex Site Office	11-059	Weapons Evaluation Test Laboratory	O	31,819		100		Certified	Certification Received
NNSA	SNL - New Mexico	720	ION BEAM LABORATORY	O	27,854		100		Silver	Certification Received
NNSA	SNL - New Mexico	858EF	MESA MICROFAB - EAST FACILITY	O	111,122		100		Certified	Certification Received
NNSA	SNL - New Mexico	858EL	MESA MICROLAB - EAST LAB	O	171,500		100		Silver	Certification Received
NNSA	SNL - New Mexico	898	WEAPONS INTEGRATION FACILITY	O	177,216		100		Silver	Certification Received
NNSA	SNL - New Mexico	899	JOINT COMPUTATIONAL ENG. LAB. (JCEL)	O	62,201		100		Silver	Certification Received
NNSA	Y-12 Site Office	602 SCA	New Hope Center	C	137,758		100		Certified	Certification Received
NR	KAPL - Kesselring	111 (91011)	Training Facility	O	14,000		100			Certification Waived
SC	Argonne Natl Lab-Site D	046	Transportation Building	O	52,837		100		Silver	Certification Received
SC	Argonne Natl Lab-Site D	216	Sub-Angstrom Microscopy & Micro	O	7,289		100		Gold	Certification Received
SC	Brookhaven National Laboratory	0400	Research Support Building	O	64,816		100		Silver	Certification Received
SC	Brookhaven National Laboratory	0735	Center for Functional Nanomaterials	O	95,947		100		Silver	Certification Received
SC	Lawrence Berkeley Laboratory	067/67A	Molecular Foundry (Labs-Shops-Offices)	O	95,580		100		Gold	Certification Received
SC	Oak Ridge National Laboratory (X-10)	1005	Lab for Comparative & Functional Genomic	O	35,973	100		None		
SC	Oak Ridge National Laboratory (X-10)	1059	Computational Biology and Bioinformatics	O	6,998	100		Gold		
SC	Oak Ridge National Laboratory (X-10)	1520	Joint Institute for Biological Sciences	C	35,543		100			Failed To Be Certified
SC	Oak Ridge National Laboratory (X-10)	1521	West End Research Support Facility	O	9,303		100		Certified	Certification Received
SC	Oak Ridge National Laboratory (X-10)	3625	Advanced Materials Characterization Lab	O	13,012	100		None		
SC	Oak Ridge National Laboratory (X-10)	5100	Joint Inst. for Computational Sciences	C	51,451		100		Silver	Certification Received
SC	Oak Ridge National Laboratory (X-10)	5200	ORNL Conference Center	O	53,943		100		Certified	Certification Received
SC	Oak Ridge National Laboratory (X-10)	5300	Multi-Program Research Facility	C	145,000		100		Gold	Certification Received
SC	Oak Ridge National Laboratory (X-10)	5600	Computational Sciences Building	C	98,348		100		Certified	Certification Received
SC	Oak Ridge National Laboratory (X-10)	5700	Research Office Building	C	84,711		100		Certified	Certification Received
SC	Oak Ridge National Laboratory (X-10)	5800	Engineering Technology Facility	C	77,492		100		Certified	Certification Received
SC	Oak Ridge National Laboratory (X-10)	7625	MultiProgram High Bay Facility	O	30,183	100		None		
SC	Oak Ridge National Laboratory (X-10)	7990	Melton Valley Warehouse	O	9,100		100		Certified	Certification Received
SC	Oak Ridge National Laboratory (X-10)	8610	Center for Nanophase Materials Sciences	O	79,462	100		None		
SC	PPPL-Forrestal Resrch. Ctr	C01	Lyman Spitzer Building (LSB)	O	118,959	100		Gold		
SC	Pacific Northwest National Lab	3410	Material Sciences & Technology Lab	O	79,878		100		Silver	Certification Received
SC	Pacific Northwest National Lab	3420	Radiation Detection Laboratory	O	81,369		100		Silver	Certification Received

### Attachment 3 - DOE Green Buildings - As of September 12, 2011

PRGM	Site	Property ID	Name	Ownership	GSF	GP Pts EB	GP Pts NC	LEED Cert EB	LEED Cert NC	LEED CERT Received NC
SC	Pacific Northwest National Lab	3425	Ultra Low Background Counting Laboratory	O	7,418		100		Silver	Certification Received
SC	Pacific Northwest National Lab	3430	Ultratrace Laboratory	O	70,298		100		Silver	Certification Received
SC	Pacific Northwest National Lab	3440	Large Detector Laboratory	O	5,488		100		Silver	Certification Received
SC	Pacific Northwest National Lab	BSF	Biological Sciences Facility	C	78,218		100		Gold	Certification Received
SC	Pacific Northwest National Lab	CSF	Computational Sciences Facility	C	65,861		100		Gold	Certification Received
SC	SLAC National Accelerator Laboratory	901	LCLS Office Building	O	22,000		100		Gold	Certification Received
SC	SNL - New Mexico	518	CINT CORE FACILITY	O	95,929		100		Certified	Certification Received